

19980508.qrp v01_n085.qrs.980508

Date: Fri, 8 May 1998 19:03:12 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 1085

QRP-L Digest 1085

Topics covered in this issue include:

- 1) [10437] QRPTTF Logs - Form Letter Receipts
by Joe Gervais <vole@primenet.com>
- 2) [10438] Re: New NWQRP Contest
by Richard C Berrill Jr <rjrberri@xnet.com>
- 3) [10439] LED Keyer- almost ready to ship
by Steven Weber <kd1jv@moose.ncia.net>
- 4) [10440] RE: New NWQRP Contest
by "Hulbert, Nick" <nick.hulbert@lmco.com>
- 5) [10441] Re: PC-VFO shipping
by Chris Cartwright <ccart@dns.vidtel.com>
- 6) [10442] Wilderness QRP Trip & Invitation
by "David Maliniak" <dmaliniak@penton.com>
- 7) [10443] RE: NEED test instrument web pages
by Ed Loranger <we6w@qsl.net>
- 8) [10444] True Ham Spirit of W5VBO
by Lamborn@onlinecol.com
- 9) [10445] RE:Antenna Simulator.
by Ed Loranger <we6w@qsl.net>
- 10) [10446] Re: Unsoldering
by Leon Heller <leon@lfheller.demon.co.uk>
- 11) [10447] DX versus RX?
by KC5TJA <kc5tja@topaz.axisinternet.com>
- 12) [10448] Ham Con QRP Activities?
by Mike - W0TMW <crucis@sky.net>
- 13) [10449] Results of the MAY SPARTAN SPRINT
by Russ Carpenter <russ@natworld.com>
- 14) [10450] Homebrew Test instrument web page
by Pierre Constantineau <pierre@cmpe.ubc.ca>
- 15) [10451] KB4NPI and 10m Foxhunt
by "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
- 16) [10452] Re: New NWQRP Contest
by Bob Edwards <w4ed@flash.net>
- 17) [10453] Re: Unsoldering
by Richard Brittingham <rbritt@visi.net>
- 18) [10454] Re: Unsoldering
by Richard Brittingham <rbritt@visi.net>
- 19) [10455] SPICE Question

by Andy Fox <foxes@theriver.com>

20) [10456] Argo 505 FS, again
by MNHopkins <MNHopkins@aol.com>

21) [10457] Re: DX versus RX?
by Tom Bowman <tbowman@nbn.net>

22) [10458] Re: DX versus RX?
by MNHopkins <MNHopkins@aol.com>

23) [10459] Re: DX versus RX?
by KC5TJA <kc5tja@topaz.axisinternet.com>

24) [10460] Ar qrp club
by ac5ez@webtv.net (Larry B)

25) [10461] RE: DX versus RX?
by Hank Kohl K8DD <k8dd@contesting.com> (by way of Hank Kohl K8DD
<k8dd@contesting.com>)

26) [10462] HF Freq on Dayton Trip???
by "ukii" <ukii@megsinet.net>

27) [10463] bi-directional ant question
by jdenison@morelr.com (JOEL DENISON)

28) [10464] Keyer/paddle FS
by Jack Parker <Pparker@greatbasin.net>

29) [10465] Re: Unsoldering
by Brian Chesire <BCChesire@worldnet.att.net>

30) [10466] RE: Unsoldering
by Tracy@bytemark.com (Tracy)

31) [10467] Drake R4B
by jmbrown@edge.net (JERRY BROWN)

32) [10468] Fists Spring Sprint es QRP
by JkHampton <JkHampton@aol.com>

33) [10469] 10 Meters (and 6)
by Chuck Carpenter <w5usj@webwide.net>

34) [10470] Other For Sale stuff
by mwattcpa@earthlink.net (Marty Watt)

35) [10471] MFJ-564B Paddles for Sale or Trade
by mwattcpa@earthlink.net (Marty Watt)

36) [10472] (Computer help) Thanks
by Jay & Jackie <jayboy@psnw.com>

37) [10473] Re: Unsoldering
by "Harley L. Miller" <hmliller@sound.net>

38) [10474] 10m cw qso - special
by "Timothy J. Pettibone" <tpettibo@NMSU.Edu>

39) [10475] Dayton
by "KA5T Larry Wise" <lewise@inetport.com>

40) [10476] K2-Preview (Part One)
by Conrad <radman@best.com>

41) [10477] K2 Preview (Part Two)
by Conrad <radman@best.com>

42) [10478] Elmer 101: U5 osc circuit
by PGSPersEng <PGSPersEng@aol.com>

- 43) [10479] RE: Antenna Simulator
by "Prof.Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
- 44) [10480] SOLAR SUMMARY CHARTS
by Paul Harden <pharden@aoc.nrao.edu>
- 45) [10481] Your article and effort!
by Bill Todd <bill@willapabay.org>
- 46) [10482] Radio Shack 21-527 Pwr meters
by "Brian Jones" <brian_jones@uk.ibm.com>
- 47) [10483] QRP+ transceiver !
by Eddy Tchung <rava@mail.pf>
- 48) [10484] receivers
by "Jerry W. O'Dell" <psyodell@mail.provide.net>
- 49) [10485] Elmer 101
by klhartman@lucent.com
- 50) [10486] RE: K2 Preview
by Jay & Jackie <jayboy@psnw.com>
- 51) [10487] Unsoldering- one more time
by Bensondj <Bensondj@aol.com>
- 52) [10488] QRP Bone Dig Expedition Information
by Nick Franco <kf2ph@bnl.gov>
- 53) [10489] receivers -Reply
by Bob Reynolds <breynd@sigg.com>
- 54) [10490] Six Meters, ferrets at Dayton
by MNHopkins <MNHopkins@aol.com>
- 55) [10491] Re: Elmer 101: U5 osc circuit
by Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>
- 56) [10492] Re: QRPTTF Logs - Form Letter Receipts
by Bruce Rattray <rattray@gpfn.sk.ca>
- 57) [10493] Desoldering
by Ward Hill <w_hill@ns.net>
- 58) [10494] RE: Antenna Simulator
by Steven Weber <kd1jv@moose.ncia.net>
- 59) [10495] Re: receivers
by Steven Weber <kd1jv@moose.ncia.net>
- 60) [10496] Re: receivers -Reply
by "Brian Hemmis" <K3USC@worldnet.att.net>
- 61) [10497] Receivers
by "Ken Burrough" <ne0c@1st.net>
- 62) [10498] QRP Bone Dig - UTC Correction :-)
by Nick Franco <kf2ph@bnl.gov>
- 63) [10499] Contest Manager Leaves Town Hastily
by Russ Carpenter <russ@natworld.com>
- 64) [10500] RTTY & FT840
by kreinbd@ccgate.dl.nec.com (David Kreinberg)
- 65) [10501] Re: 2nd order intermod
by KV1V <KV1V@aol.com>
- 66) [10502] Re: Desoldering, Elmer101
by Niel Skousen <nskousen@scientech.com>

- 67) [10503] Ft. Tuthill?
by Bruce Rattray <rattray@gpfn.sk.ca>
- 68) [10504] Re: Unsoldering- one more time
by Richard Brittingham <rbritt@visi.net>
- 69) [10505] Re: Elmer 101: U5 osc circuit
by Niel Skousen <nskousen@scientech.com>
- 70) [10506] ARRL & QRP
by "Marshall Emm" <mgemm@mtechnologies.com>
- 71) [10507] Antenna Simulator Ascii schematic try.
by Ed Loranger <we6w@qsl.net>
- 72) [10508] History of HW-8 book
by "Mike Czuhajewski" <mczuhajewski@evi-inc.com>
- 73) [10509] Denver CO 'lil help'
by Harry Bump <bump@redrose.net>
- 74) [10510] Re: Ft. Tuthill?
by Paul Harden <pharden@aoc.nrao.edu>
- 75) [10511] Re: Ft. Tuthill?
by Joe Gervais <vole@primenet.com>
- 76) [10512] Re: receivers
by af852@rgfn.epcc.edu (William R Colbert)
- 77) [10513] Potentiometer
by Tellefsen Bob-CNSE97 <cnse97@lmpsil02.comm.mot.com>
- 78) [10514] Re: Antenna Simulator Ascii schematic try.
by "George T. Baker" <w5yr@swbell.net>
- 79) [10515] Re: New NWQRP Contest
by Ed Loranger <we6w@qsl.net>
- 80) [10516] RR mobile
by tom whalen <whalen@swcp.com>
- 81) [10517] Re: Antenna Simulator Ascii schematic try.
by Ed Loranger <we6w@qsl.net>
- 82) [10518] Re: Ft. Tuthill?
by Kent Torell <torell@sicom.com>
- 83) [10519] Re: BNC's for RG-174
by Bill Howell <bhowell@mail.utexas.edu>
- 84) [10520] Unsoldering
by Mel Evans <MelEvansGM6JAG@compuserve.com>
- 85) [10521] Re: RTTY & FT840
by Mike - W0TMW <crucis@sky.net>
- 86) [10522] Amerenglish Components
by Mel Evans <MelEvansGM6JAG@compuserve.com>
- 87) [10523] K2 Update !
by Conrad <radman@best.com>
- 88) [10524] Re: Emtech NW20 rcvr spurs
by Kent Torell <torell@sicom.com>
- 89) [10525] Re: ARRL & QRP
by Monte Stark <ku7y@dri.edu>
- 90) [10526] Re: Ft. Tuthill?
by Bob Hightower <ki7mn@dancris.com>

- 91) [10527] Ft Tuthill Hamfest - QRP section
by Bob Hightower <ki7mn@dancris.com>
- 92) [10528] Re: bi-directional ant question
by Ed <edn4pk@voyageronline.net>
- 93) [10529] Re: BNC's for RG-174
by Paul Harden <pharden@aoc.nrao.edu>

Date: Thu, 7 May 1998 13:38:23 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-l@Lehigh.EDU
Subject: [10437] QRPTTF Logs - Form Letter Receipts
Message-ID: <199805072038.NAA27813@usr06.primenet.com>

Howdy Folks,

Due to a crushing project deadline and an email backlog the size of Donald Trump's wedding guest list, I'm going to be forced to do something really terrible....

FORM LETTERS! AAAIIEEEEEEEEEE!

I hate these things, but I want all of you QRPTTF ops to know I received your log. So if you'll please forgive me just this one time, I'll do my best to give you a truly personal response once things quiet down. They'll start going out tonight, and hopefully this'll help me get a handle on the rest of the stuff.

Thanks very much for your patience and help. I owe you all a pizza. Just give me time to save up for it. :)

Now... whoever has email access at Dayton is going to tell us home-bound QRPers what the new NorCal project is, right? RIGHT? :-)

Hope everyone has fun out there! Man, bands are likely to be dead, QRP-L will be deserted, guess those of us not going to Dayton better heat up a soldering iron or mow the lawn....

Cheers de AB7TT,

-Joe, vole@primenet.com, NorCal Contest Manager,
NorCal QRP, AZ ScQRPions, and many other fine,
furry groups....

Nobody has so many friends that he can afford to lose one. -- Edward Abbey

Date: Thu, 07 May 1998 15:39:14 -0500
From: Richard C Berrill Jr <rjrberri@xnet.com>
To: Qrp Mailing List <QRP-L@Lehigh.EDU>
Subject: [10438] Re: New NWQRP Contest
Message-ID: <35521BF1.4ADB4BDC@xnet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

this ones got my vote I laughed out loud and the guys in the computer lab
looked at me like I was nutz. Can't you just see it zooming around the
internet

Participate in NERDS '98.....

It has a wonderful ring to it ;-)

72, Rich

Joe Gervais wrote:

> Howdy,
>
> Bill (N7MFB) wrote:
> >
> > We need to get Joe Gervais or Nils in on this too. No telling
> > what they might come up with.
>
> Dear Lord above - I've been mentioned in the same
> breath as Nils! Nurse, call my pharmacist - stat! :-)
>
> Thanks, but I'd best just stay out of this one.
> Already way over my head in rabid alligators as
> it is. ;-)
>
> Hmmm.... Oh what the heck!
>
> "Normalized Expedient Radiator Designer's Sprint"
>
> Hey, I can say that "'cuz I *are* one"! Just ask
> my wife. :-)
>

> Cheers de AB7TT,
>
> -Joe, vole@primenet.com, AZ ScQRPions (Phoenix)
>
> Nobody has so many friends that he can afford to lose one. -- Edward Abbey

Date: Thu, 07 May 1998 15:53:17
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-1@Lehigh.EDU
Subject: [10439] LED Keyer- almost ready to ship
Message-ID: <3.0.3.16.19980507155317.276f202c@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Howdy Gang,

I was hoping to start mailing the kits tomorrow, but looks like they will go out Monday. All set but need to blast the cpu chips @ about 5 mins a chip, so will be busy this weekend, for sure :-)

72,
Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Thu, 07 May 1998 14:14:31 -0600
From: "Hulbert, Nick" <nick.hulbert@lmco.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>, Bill Todd <bill@willapabay.org>
Subject: [10440] RE: New NWQRP Contest
Message-ID: <5104C9F8B0B5D1118C250000F806253751A792@emss02m13.ems.lmco.com>
Content-return: allowed
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"

How about FLAME "Field Limited Antenna Making Exercise" ?

Nick KG5N

From: Bill Todd [SMTP:bill@willapabay.org]
Sent: Thursday, May 07, 1998 12:37 PM
To: Low Power Amateur Radio Discussion
Subject: Re: New NWQRP Contest

>> NAME THAT CONTEST!

>

>Another Non Tower Erected Non Nebulizing Antenna (ANTENNA)

>

>Or for the multi ops in Texas:

>

>All Nine Texans Erected Nine Noisy Antennas (ANTENNA)

>

>:-)

>

>--

>73, Ron, SOWP 5545M,

You ARE funny!

We need to get Joe Gervais or Nils in on this too. No telling what
they might come up with.

How about: "Does Radio Effort Activiate My Sloper? DREAMS
or, "Qrp Utilizes Attractive and Creative Kooks QUACK

CUL, Bill-N7MFB

<http://www.willapabay.com/~bill>

ICQ me at #8926298

Date: Thu, 7 May 1998 16:52:52 -0400 (EDT)
From: Chris Cartwright <ccart@dns.vidtel.com>
To: QRP Reflector <qrp-l@Lehigh.EDU>
Subject: [10441] Re: PC-VFO shipping
Message-ID: <Pine.LNX.3.93.980507163950.1370B-100000@dns.vidtel.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 7 May 1998, Tracy wrote:

> The PC-VFO is now shipping.

Gang,

A few months ago we all had a good laugh about the PCMCIA rig, well things like this come out and one gets to thinking...

B&G Micro has an ISA FM radio card for about \$10, I got one locally a few weeks back, just to poke around with. Figured I could try and "tweak" it to a 2M RX. Combined with this VFO, hmm... 160-6, keyer, auto logging, auto qsl printer, beacon...

I'm gettin' me an idear or two, now to find the time to do something with 'em. Just tossing out some ideas, so don't be looking for the \$199 Kachina QRP knock-off anytime soon. :)

```
-- Chris Cartwright,   Technical Engineer   |      ccart@vidtel.com      --  
-- N3XRV      ARRL-VE   QRP WAS 28/13(w/c)  | http://dns.vidtel.com/~ccart --  
-- QRP-L #655 NORCAL #1891 QRP-ARCI #???? NJ-QRP #105 LIQRP #???? MDmW #5 --
```

Date: Thu, 7 May 1998 17:12:36 -0400
From: "David Maliniak" <dmaliniak@penton.com>
To: qrp-l@Lehigh.EDU
Subject: [10442] Wilderness QRP Trip & Invitation
Message-ID: <852565FD.00747163.00@mail.penton.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii

Guys:

This from the NJ-QRP listserver... you might want to listen up for George and Mike on their upcoming odyssey...

72 David N2SMH

Glen Rock, NJ

----- Forwarded by David Maliniak/EEPN/Penton on 05/07/98
05:35 PM -----

"George H. Collier" <collier@bellcore.com> on 05/07/98 04:48:21 PM

Please respond to njqrp@njqrp.org

To: "New Jersey QRP (E-mail)" <njqrp@njqrp.org>
cc: (bcc: David Maliniak/EEPN/Penton)
Subject: Wilderness QRP Trip & Invitation

Dear Friends,

I am forwarding a note from the originator of the mad scheme describing our forthcoming backpacking trip and QRP sched.

I will be operating with my new Serria (if I can get it finished and working in time)...

Hope to work some of you then!

George Collier

KC2BIS

Friends, Romans, Elmers, lend me your cans....

I am pleased to introduce the first annual QRP Bone Dig, an event designed to

promote the virtues of

Canine assisted wilderness travel, and light weight-low power communications.

On May 22, 23, 24, and 25, George Collier (KC2BIS) and Michael Lydick (AA2QO)

will be hiking/

camping along NY's Northville Lake Placid trail. This historical trail runs directly through New York's

Addirondack Wilderness Park, a section of wild terrain several magnitudes larger than Yellowstone

National Park. What makes their trips unique is the fact that George and Mike

camp use Alaskan

Malamutes (5 in total) to pack / sled their equipment and supplies in and out.

Ergo, the QRP Bone Dig.

George and Mike will be operating three different bands, for three nights.

The

premise of the Bone Dig is

to find their "buried" signal deep within the QRM, QRN and QSB. Your shovels

will most likely be your

RF Gain and Audio Filter Controls. Your reward for finding the bone will be an

official QRP Bone Dig

QSL card commemorating the event for all eternity.

So, listen for George or Mike calling "CQ BD CQ BD DE AA2QO or KC2BIS".

Respond with Name, RST, STATE, and POWER.

Michael will post the results of the Bone Dig on the Bone Dig site page about

a week afterwards, with

pictures from the trip and descriptions of their harrowing tails of black

bears, lightning storms, and smelly
wet dogs.

For details on scheduled times / freq.'s, check out the Bone Dig web site
at

<http://members.aol.com/aa2qo/qrp/index1.html>.

Its a good site, with pictures from their last QRP expedition this past
January when they took the dogs in
with sleds and snowshoes....(Check out their Photo Gallery Link)

On behalf of George and Mike, thanks for your involvement and
participation.

Gentlemen. . .good digging.

SCHEDULE

80 METER

DATE: MAY 22, 23, 24
FREQ: 3.686Mhz [+ or - 10Khz]
TIME: 2430-0230 UTC

40 METER

DATE: MAY 22, 23, 24
FREQ: 7.040Mhz [+ or - 10Khz]
TIME: 2400-0130 UTC

30 METER

DATE: MAY 23, 24
FREQ: 10.125Mhz [+0 / -10khz]
TIME: 0130-0230 UTC

===== NJ QRP Club Mailing List =====

To unsubscribe from this list, send email to listserver@waterw.com
and put the text "unsubscribe njqrp" in the message. To post a
message to the list, send email to njqrp@njqrp.org.

Date: Thu, 07 May 1998 21:20:53 +0000
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Cc: Pierre Constantineau <pierre@cmpe.ubc.ca>
Subject: [10443] RE: NEED test instrument web pages
Message-ID: <355225B5.10F@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Pierre, I have a Antenna Scope that I built and some

attenuator info on my webpage.

http://www.qsl.net/we6w/projects/Ant_scope.txt

<http://www.qsl.net/we6w/text/atten.html>

I use the antenna Scope all the time. Great for measuring impedances in general. It needs a signal source that is lightly coupled to the RF input. I use a GDO but any signal generator and a few turns of wire can inductively couple to the input.

-Ed

--

72, Ed, WE6W/qrp CW ONLY; Proud Member: QRP-L/ARCI/Norcal/ARS/AR

<http://www.qsl.net/we6w> (Enjoying Ham Radio every day.)

Date: 7 May 1998 15:30:36 MDT

From: Lamborn@onlinecol.com

To: qrp-l@Lehigh.EDU

Subject: [10444] True Ham Spirit of W5VBO

Message-ID: <199805072132.RAA46878@nss4.cc.Lehigh.EDU>

As my first real posting to qrp-l I would like to publicly thank Brian Kassel, W5VBO, for being a great qrp elmer. After meeting Brian at the AZ sQRPion booth at the SARC hamfest in Mesa in December, 1996, he encouraged me to try qrp. I had been a ham for two years and had very little HF experience and no elmer. We talked some more the following January at the hamfest in Glendale, Az and he told me about the 38 special. That was the month I moved to western Colorado.

Since then I got the 38S kit and put all the components on the board with help from a local ham. I emailed Brian several times and he always provided great info. In April I my wife and I traveled back to AZ. She dropped me off at Brian's for a day of "day care." For ten hours Brian reviewed the basic circuitry and showed/helped me smoke test, tune, adjust, and modify the rig. It passed the smoke test using his neat variable power supply. Brian graciously provided the parts I could not find in western Colorado to complete the RIT and High Power mods. He also showed me the variable power mod which he installed. Even though I have not yet enclosed it or made a first QSO with it, the knowledge that it works has caused a very "happy dance!"

It was a real learning experience to get to see and use his test equipment. Brian also showed me his library and suggested a reading list for my continuing qrp education.

The other part of this story is that I went to school with Brian for one year about 39 years ago. Our paths then separated and we lost track of each until the Mesa hamfest. That year he received his novice license. I was interested in ham radio then but never applied myself to the task of getting the license until much latter. Our meeting at the hamfest in Mesa has turned out to be quite a blessing.

I would like to also thank the many contributors to QRP-L. I have learned so much. I'll see some of you at FT. Tuthill and I hope to exchange shots with you all during the summer fox hunt.

Steve Schroder
KI0KY (lamborn@onlinecol.com)
Hotchkiss, (Western) Colorado

Back to LURKING AND LEARNING ON THE "L"

to: in:qrp-l@lehigh.edu
cc: IN:bkassel@dancris.com
IN:Lamborn@onlinecol.com

Date: Thu, 07 May 1998 21:32:19 +0000
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Cc: Steven Weber <kd1jv@moose.ncia.net>
Subject: [10445] RE:Antenna Simulator.
Message-ID: <35522863.B91@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have an official Antenna Simulator. Military AN/URG number is on it. I'll take a look and see what's under the hood.

It is about 1"x1"x3.5" (HWD)

-Ed

--

72, Ed, WE6W/qrp CW ONLY; Proud Member: QRP-L/ARCI/Norcal/ARS/AR
<http://www.qsl.net/we6w> (Enjoying Ham Radio every day.)

Date: Thu, 7 May 1998 16:31:19 +0100
From: Leon Heller <leon@lfheller.demon.co.uk>
To: wb4nbi@erols.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [10446] Re: Unsoldering
Message-ID: <cYkjQAAHPdU1Ew\$2@lfheller.demon.co.uk>
MIME-Version: 1.0

In message <3551C72C.6955@erols.com>, "Stephen W. Gibson"
<wb4nbi@erols.com> writes
>Can one of you experts tell me how to clear a hole in a PCB without
>destroying the "solder thru" connection by drilling it out? I misread the
>color code on a resistor and in removing it managed to block both holes.
>I've tried copper braid without success.
>

I clear holes like this by melting the solder and blowing hard. It
sometimes helps to add some more solder, paradoxically.

Leon

--

Leon Heller: leon@lfheller.demon.co.uk <http://www.lfheller.demon.co.uk>
Amateur Radio Callsign G1HSM Tel: +44 (0) 118 947 1424
See <http://www.lfheller.demon.co.uk/dds.htm> for details of my AD9850
DDS system. See " /diy_dsp.htm for a simple DIY DSP ADSP-2104 system.

Date: Thu, 7 May 1998 14:38:19 -0700 (PDT)
From: KC5TJA <kc5tja@topaz.axisinternet.com>
To: qrp-l@Lehigh.EDU
Subject: [10447] DX versus RX?
Message-ID: <Pine.LNX.3.96.980507143720.5809A-100000@topaz.axisinternet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

What is DX, and how does it differ from RX? I've seen the latter
abbreviation used once or twice on this list, and on the new newsletter as
per nu6SN's post, but still don't know quite what it is yet.

Thanks.

```
=====
KC5TJA/6      |      -| TEAM DOLPHIN |-
DM13          |      Samuel A. Falvo II
QRP-L #1447   |      http://www.dolphin.openprojects.net
```

Date: Thu, 07 May 1998 16:48:44 -0600
From: Mike - W0TMW <crucis@sky.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [10448] Ham Con QRP Activities?
Message-ID: <35522C3C.91E1DC84@sky.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Since I can't go to Dayton, I'll go to Ham Con. Anyone know of any QRP activities?

Mike - W0TMW

--

=====
Mike Watson, W0TMW QCWA Mbr # 28651, Chap. 35
Raymore, MO USA Grid: EM28st ARCI# 9647
<http://www.sky.net/~crucis>
E-mail: crucis@sky.net ARS# 352, QRP-L# 1489
=====

Date: Thu, 7 May 1998 14:57:05 -0800
From: Russ Carpenter <russ@natworld.com>
To: "QRP-L List" <qrp-l@Lehigh.EDU>
Subject: [10449] Results of the MAY SPARTAN SPRINT
Message-ID: <199805072149.0AA15954@guppy.pond.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

QRPers are great. In the middle of one of the roughest solar storms in recent memory, the Spartan Sprinters racked up Qs. We had excellent participation and surprisingly good results. We have posted the soapbox on the brand new ARS Sojourner, which has the same URL as the old ARS web site. Hop on over to <http://www.natworld.com/ars>. You'll love it.

Each contact on 40 and 20 meters earned one point. Stations that weighed a zillion pounds were stipulated to weigh 30 pounds.

THE SKINNY DIVISION (results sorted in order of points per pound)

Call	Name	40 M	20M	Total	Weight	Points/ Pound
K6PZB	John	11	0	11	.4	27.50
N7CEE	Bruce	10	0	10	1.1	9.09
AB7TK	Randy	8	0	8	1.2	6.67
AB0CD	Dick	6	0	6	1	6.00
W6SU	John	12	0	12	2.4	5.00
W0CH	Dave	8	0	8	1.6	5.00
AA7QU	Russ	9	4	13	2.7	4.81
W3TS	Mike	3	0	3	.8	3.75
WE6W	Ed	10	0	10	4.9	2.04
WA1QVM	Joel	5	1	6	3	2.00
K06KA	Rob	9	2	11	14.8	0.74
N7XJ	Bob	17	0	17	30	0.57
K8CV	Walt	11	0	11	30	0.37
W5USJ	Chuck	0	3	3	10	0.30
KI0II	Ron	4	0	4	14.1	0.28
K0VO	Mike	4	2	6	30	0.20
NR1C	Mike	5	0	5	30	0.17
VE3ELA	Ken	4	0	4	30	0.13
KC8JIE	Ed	2	0	2	20	0.10
W7SNV	Al	0	1	1	12	0.08

THE TUBBY DIVISION (results sorted in order of points)

Call	Name	40 M	20M	Total
N7XJ	Bob	17	0	17
AA7QU	Russ	9	4	13
W6SU	John	12	0	12
K8CV	Walt	11	0	11
K06KA	Rob	9	2	11
K6PZB	John	11	0	11
WE6W	Ed	10	0	10
N7CEE	Bruce	10	0	10
AB7TK	Randy	8	0	8
W0CH	Dave	8	0	8
K0VO	Mike	4	2	6
WA1QVM	Joel	5	1	6
AB0CD	Dick	6	0	6
NR1C	Mike	5	0	5
VE3ELA	Ken	4	0	4
KI0II	Ron	4	0	4
W5USJ	Chuck	0	3	3
W3TS	Mike	3	0	3

KC8JIE	Ed	2	0	2
W7SNV	Al	0	1	1

Thanks for your support!

Russ Carpenter, AA7QU
Contest Manager

Date: Thu, 07 May 1998 14:58:39 -0700
From: Pierre Constantineau <pierre@cmpe.ubc.ca>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [10450] Homebrew Test instrument web page
Message-ID: <35522E8F.4A223D0A@cmpe.ubc.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi people...

My homebrew test instrument web page is now online at:
<http://noname.cmpe.ubc.ca/pierre/testequ.htm>

For any additions to the site or if you would like to see your project on my page please reply to me.

Thanks

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             ( o o )
-----o000--( _ )--000o-----
Pierre Constantineau  B.Eng           Email: pierre@cmpe.ubc.ca
M. Applied Sciences Candidate         Phone: (604) 822-2913
Flash Smelting Group                 Fax:   (604) 822-4750
Centre For Metallurgical             111-2355 East Mall
Process Engineering                  Vancouver, BC, Canada
U. of British Columbia   .ooo0       V6T 1Z4
http://noname.cmpe.ubc.ca ( _ )   0ooo.  Amateur Radio: VE7JPC
-----\ (----- ( _ )-----
              \ _ )   ) /
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Date: Thu, 07 May 1998 22:01:55 -0400
From: "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
To: qrp-1@Lehigh.EDU
Cc: adams@chuck.dallas.sgi.com
Subject: [10451] KB4NPI and 10m Foxhunt
Message-ID: <3.0.16.19980507220118.25b730b6@som-uky.campus.mci.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I'm proud to say that my xyl Phyllis, KB4NPI, would like to participate on 10m, operating qrp ssb in the summer Fox event.

Since we share the same email address, how can I go about getting her a qrp-1 number? The GETNR routine seems to look at the reply to: address instead of her callsign, and replies that I have number 933 already.

Any way around this?

Thanks...Rich

Rich Dailey, KA8OKH <ka8okh@som-uky.campus.mci.net>
The KA8OKH / KB4NPI Web - <http://www.qsl.net/ka8okh>

Date: Thu, 07 May 1998 18:25:07 -0400
From: Bob Edwards <w4ed@flash.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [10452] Re: New NWQRP Contest
Message-ID: <355234C3.2B7CB9D2@flash.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

My kind'a contest, what's the date ?

for a name: "QA" as in Quality Assurance *gasp*,
as in Quickie Antler,
as in QRP Antenna,
as in Quintessential Amateur,
(or, error msg from an overloaded ISP)
as in Queued Again !

This may already exist, if not, how about an
ARS/PQ entry class where one needs to carry
everything in, tools, wire, transmission line,
coolers, snacks, medication, more medication, etc...

--

Bob 72/73

<http://www.qsl.net/w4ed>

W4ED nr Atlanta @EM73wt

...."QRP", more from less....

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      /\
     /\ |
    /\ | \
   /\ |  \
  /\ |   \
 /\ |____\
[ \-----/
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Date: Thu, 7 May 1998 18:28:53 -0400 (EDT)
From: Richard Brittingham <rbritt@visi.net>
To: Chris Cartwright <ccart@dns.vidtel.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [10453] Re: Unsoldering
Message-ID: <Pine.GS0.3.96.980507182807.12524C-100000@ankara.visi.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I use a dental instrument. Solder doesn't stick to it at all.

Thats what we used in micro-minature class in Navy school.

73

Richard W4MCD

Amateur Radio Operator as WD4AEF for 22 years
Now Vanity Call is W4MCD

Date: Thu, 7 May 1998 18:33:10 -0400 (EDT)
From: Richard Brittingham <rbritt@visi.net>
To: Conway Yee <cyee@bidmc.harvard.edu>

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [10454] Re: Unsoldering
Message-ID: <Pine.GS0.3.96.980507183141.12524E-1000000@ankara.visi.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I forgot to mention, when you use a dental pick, heat it up near the joint and dont puch down. Let the heat melt the solder and let the pick go thru on its own.

73
Richard W4MCD

Amateur Radio Operator as WD4AEF for 22 years
Now Vanity Call is W4MCD

Date: Thu, 07 May 1998 15:48:38 -0700
From: Andy Fox <foxes@theriver.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [10455] SPICE Question
Message-ID: <35523A46.7BA0997A@theriver.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi,

Does anyone on the list have any first hand experience with the "Spice48 Pac" for the HP 48GX?

The best description is at:
<http://www.limitless.co.uk/tuscan/spicebro.html>

I will probably stick with the (free) SPICE tools on my PC, but this looks interesting.

--

72/73 de Andy, KK7HV - QRP-L #1286 - Benson, AZ

Date: Thu, 7 May 1998 18:59:21 EDT
From: MNHopkins <MNHopkins@aol.com>
To: QRP-L@Lehigh.EDU
Subject: [10456] Argo 505 FS, again
Message-ID: <14aad6ad.35523cca@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

My pal (I guess he is still such) has forgiven me for mentioning he had a Ten-Tec Argonaut 505 for sale and flooding him with e-mails attendant to the beast. He throws up his hands and says "you sell it."

Ok, for the greater good of QRPdom I am taking over this device which is shown to work on a spectrum analyzer, but is also shown to have a wide, rough looking signature to his practiced eye. I opined, but do not guaranatee, that it has filter troubles to go with its slipping dial cord and copy of the manual. It could as easily be a bias problem and I'm sure Mike Bryce could make three columns of it.

I do not yet have it in hand, but it is just 10 miles away. If not sold for the \$100 asked plus postage, it goes to Dayton where I will wear it like Colerages's Albatross as I wander about the Days Inn South where I am staying with my 11-year-old son and other undesirables. It is in better shape than most QRPers now and will look even better during the hospitality event, I am sure.

But seriously, it is clean and unmodified. He and I have lost the e-mails of those who first responded, but I will recognize the names and, failing a deal with one of them, I'll sell it to whomever, either mailing it or taking it to Dayton.

I am taking no commission on this classic cream and brown fixer upper.

73 de ab5L, michael in dallas, student of Tecraft and International (ICM) ham products and mementoes of Six Meters' Golden Age: 1957-58
Michael Hopkins
Box 226841
Dallas, TX 75222 MNHopkins@AOL.com

Date: Thu, 07 May 1998 19:34:45 -0400
From: Tom Bowman <tbowman@nbn.net>

To: qrp-1@Lehigh.EDU
Cc: kc5tja@topaz.axisinternet.com
Subject: [10457] Re: DX versus RX?
Message-ID: <3.0.5.32.19980507193445.00816c80@nbn.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

When I first got my novice ticket back in 1961, the ARRL published a really neat booklet for us new operators with lists of CW abbreviations. Those abbreviations stuck with us as we used them.

DX was the telegrapher's short way of saying distance. A DX station or just DX was a distant station.

RX was receiver or rcvr and TX was transmitter or xmitter.

It's too bad that old booklet isn't still published.
I think it was titled "Operating an Amateur Radio Station."

At 02:38 PM 5/7/98 -0700, you wrote:

>What is DX, and how does it differ from RX? I've seen the latter
>abbreviation used once or twice on this list, and on the new newsletter as
>per nu6SN's post, but still don't know quite what it is yet.

>

>Thanks.

>

>=====

> KC5TJA/6		- TEAM DOLPHIN -
> DM13		Samuel A. Falvo II
> QRP-L #1447		http://www.dolphin.openprojects.net

>

>

>

Tom Bowman <>< WA3REY, Mount Gretna, PA 17064

<http://www.mt-gretna.com> tbowman@mt-gretna.com

Date: Thu, 7 May 1998 19:43:41 EDT
From: MNHopkins <MNHopkins@aol.com>
To: kc5tja@topaz.axisinternet.com

Cc: qrp-L@Lehigh.EDU
Subject: [10458] Re: DX versus RX?
Message-ID: <177e42c0.3552472e@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

In the world of those to whom it is important, DX is a sacrament. It means "Distance" literally, but is the raison d'etre, the sine qua non of many's ham radio experience. "Have you worked any DX," they often ask me of my vocation of 6M. I have, of course, but I am not one of the DX bitten. Ashe, in his book "Novice Guide" makes an assertion that many would take as gospel : "it is more meaningful to communicate across the world than across town." I don't buy it.

A spiritual descendent of the 5M days, any contact seems meaningful to me, especially if accomplished on 50mc in Morse Code. In fact, the clipped, impatient DX contact ("You're 5 by 7 in Lower Wherever") does not do much for me.

My friend Ed, K5MUH, who died in '87 had worked 49 states, needing only Alabama, but when the "DX" rolled in, he did not call "CQ Alabama." He renewed old acquaintances and made new ones. I bought his rig and I keep his counsel.

RX means receiver.

73 de ab5L, michael in dallas, student of Tecraft and International (ICM) ham products and mementoes of Six Meters' Golden Age: 1957-58
Michael Hopkins
Box 226841
Dallas, TX 75222 MNHopkins@AOL.com

Date: Thu, 7 May 1998 16:45:22 -0700 (PDT)
From: KC5TJA <kc5tja@topaz.axisinternet.com>
To: MNHopkins <MNHopkins@aol.com>
Cc: qrp-L@Lehigh.EDU
Subject: [10459] Re: DX versus RX?
Message-ID: <Pine.LNX.3.96.980507164355.13588B-1000000@topaz.axisinternet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 7 May 1998, MNHopkins wrote:

> In the world of those to whom it is important, DX is a sacrament. It means

> "Distance" literally, but is the raison d'etre, the sine qua non of many's ham
> radio experience. "Have you worked any DX," they often ask me of my vocation
> of 6M. I have, of course, but I am not one of the DX bitten. Ashe, in his
> book "Novice Guide" makes an assertion that many would take as gospel : "it is
> more meaningful to communicate across the world than across town." I don't
> buy it.

* snip *

> RX means receiver.

All that text for DX, and next to nothing for RX... :)

I'm starting to think that the use of "RX" was mistaken, as it was used in
the same context as where I'd expect to see DX. This is what confused me.
Thanks for the replies!

```
=====
      KC5TJA/6      |      -| TEAM DOLPHIN |-
      DM13         |      Samuel A. Falvo II
      QRP-L #1447  |      http://www.dolphin.openprojects.net
=====
```

Date: Thu, 7 May 1998 19:14:39 -0500
From: ac5ez@webtv.net (Larry B)
To: qrp-l@Lehigh.EDU
Subject: [10460] Ar qrp club
Message-ID: <199805080014.RAA17699@mailtod-122.bryant.webtv.net>
Content-Type: TEXT/PLAIN; CHARSET=US-ASCII
Content-Transfer-Encoding: 7BIT
MIME-Version: 1.0 (WebTV)

Would anyone have the url for the Ar qrp club handy? For some reason I
cant find it.
Thanks
Larry ac5ez

Date: Thu, 07 May 1998 20:22:47 -0400
From: Hank Kohl K8DD <k8dd@contesting.com> (by way of Hank Kohl K8DD
<k8dd@contesting.com>)
To: qrp-l@Lehigh.EDU
Subject: [10461] RE: DX versus RX?
Message-ID: <3.0.1.32.19980507202247.006b7fd4@192.0.0.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Ummmm.....DX is the abbreviation for Distance and RX is the
abbreviation for Receiver. They really don't have a lot in common,
except that you would use an RX to hear the DX.

On Thursday, May 07, 1998 9:38 PM, KC5TJA
[SMTP:kc5tja@topaz.axisinternet.com] wrote:
> What is DX, and how does it differ from RX? I've seen the latter
> abbreviation used once or twice on this list, and on the new
newsletter as
> per nu6SN's post, but still don't know quite what it is yet.
>
> Thanks.

>
>

==

>	KC5TJA/6		- TEAM DOLPHIN -
>	DM13		Samuel A. Falvo II
>	QRP-L #1447		http://www.dolphin.openprojects.net
>			
>			

*/	Hank Kohl K8DD	k8dd@contesting.com
*/	ARRL TS	(k8dd@ttr.com)
*/	MI-QRP - Vice Pres.	QRP-ARCI - Director
*/	G-QRP ARRL/LM	QCWA/LM QCAO/LM

Date: Thu, 7 May 1998 19:29:42 -0500
From: "ukii" <ukii@megsinet.net>
To: "qrp-l" <qrp-l@Lehigh.EDU>
Subject: [10462] HF Freq on Dayton Trip???
Message-ID: <00ed01bd7a18\$6c880820\$8b4e85d0@ns1.megsinet.net>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Greeting and Salutations.

(hello gang)

I get to go to Dayton this year (wife says I was a good boy)
and I am riding with a friend and his wife. They are mostly
1010 people so we will have the TS50 on ten meters. However, I was wondering
if there is some frequency where everyone on the list
going to Dayton will be? Will everyone be on SSB or CW???
I never tried cw in the car so, whew, dunno,,,,, but please, anyone
have a few freqs I might write down and check on our way out there?
Thanks Much
73 de john
n9ukx

Date: Thu, 7 May 1998 20:15:49 -0500 (CDT)
From: jdenison@morelr.com (JOEL DENISON)
To: qrp-l@Lehigh.EDU
Subject: [10463] bi-directional ant question
Message-ID: <199805080115.UAA29255@m20.morelr.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi gang:

just out the hospital again and the doc tells me I'm going to have
to "lay low" for the next few weeks which means I will have to qrp all day
and not exercise much... terrible... (another by-pass in the works)

Antenna question: I would like stay in touch with family back home
on twenty and also work europe... one is sw the other is ne from here so I
was wondering if I put up an antenna with a driven element and directors on
either side... would I get a bi-directional pattern?

I've looked in the handbook and other books I have here and can not
find any info (evidently this is not done too often) could anyone on the
list help me out on this?

My goal is to be able to do some phone patches with my son &
daughter and I thought a little gain might help on twenty with 4w SSB...

Thanks in advance

joel in maine, wa5cvm, getting out to the ne like a bandit... :-)

God Bless
Joel

WA5CVM Gentlemen don't Cry, They QSY :-)
Joel Denison Gentle Lady (RC Sail Plane)(049 engine - start)
PO BOX 542 2 element yagi on 40mtr
Strong, Maine 04983 QRP ARCI 4066 NEW ENGLAND QRP 476 QRP-L 765
jdenison@morelr.com AK/QRP 109

Date: Fri, 08 May 1998 18:25:14 -0700
From: Jack Parker <Pparker@greatbasin.net>
To: qrp-l@Lehigh.EDU
Subject: [10464] Keyer/paddle FS
Message-ID: <3.0.1.32.19980508182514.006a3308@mail.greatbasin.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

The MFJ keyer and paddle are gone...thanks to all who responded.

Jack, W7PW

Date: Thu, 07 May 1998 18:24:32 -0700
From: Brian Chesire <BCChesire@worldnet.att.net>
To: wb4nbi@erols.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [10465] Re: Unsoldering
Message-ID: <35525ED0.2127@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I rework some pretty terrible PC boards where I work, 12-16 layers, 2 ounce ground and power planes and other things that make it almost impossible to clear a hole unless the whole thing is pre-heated to 85C. Solder suckers, braid etc., just don't do the job without the pre-heat.

Take heart; When only one or two part have to come out, I remove the leads and then heat the hole, apply some more solder until I'm sure that it's melted thru and then push a common round wooden toothpick thru the hole. This clears the hole without chilling the solder. Leave the toothpick in, flip the board over and use solder wick to remove the blob. Remove the toothpick and you have a nice clean undamaged hole.

Brian WA5PP0

Tucson, AZ

Date: Thu, 7 May 1998 22:43:09 -0400
From: Tracy@bytemark.com (Tracy)
To: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [10466] RE: Unsoldering
Message-ID: <01BD7A09.CB3B5700.tracy@bytemark.com>

All good points.

One thing I've not seen mentioned about desoldering is the condition of the wick.

Most desoldering wicks come in a fairly well sealed container - for good reason. It's been my observation that once the wick begins to oxidize, it's not worth much anymore. Fresh wick of the PROPER size seems to do the best job. Good wick is impregnated with rosin, which does not seem to weather well in its powdered state. I will generally leave the wick in its container until it is time to use it.

Another point I want to make is that solder wick can't do much unless there is a decent amount of solder to wick up. It's the FLOWING action that actually pulls the majority of the solder out of the hole. Sometimes I find it easier to ADD a little fresh solder to the hole, then apply the wick to the hole and the heat to the wick. A clean soldering iron also makes a difference.

Thought that might help.
Tracy, N4LGH, #1453

Date: Thu, 07 May 1998 21:34:38 -0500
From: jmbrown@edge.net (JERRY BROWN)
To: qrp-l@Lehigh.EDU
Subject: [10467] Drake R4B
Message-ID: <35526F3E.E4E@edge.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thanks to all who responded (7) to my query.
The receiver that disappeared into the toronado funnel (ether) seems to have been worth about \$225 (all things considered).

We had toronado watch again last nite...is this El Nino or somethin'?

72,

Jerry, N4EO

Date: Thu, 7 May 1998 22:39:01 EDT
From: JkHampton <JkHampton@aol.com>
To: qrp-1@Lehigh.EDU
Subject: [10468] Fists Spring Sprint es QRP
Message-ID: <ab5747b0.35527046@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Hi to all,

The Fists CW Club's Spring Sprint will be happening this Saturday. The starting time is 1700Z and it runs until 2100Z. I know that there are a lot of Fists QRPers on the list and I will be looking forward to meeting as many as possible during the Sprint. This will be my second Sprint to operate QRP. Last year, I made some of my first QRP contacts during the Sprint and had a great time doing it. There are scoring divisions for both QRO and QRP logs so jump in and see how you can do. If you don't have a Fists number to send, send your output power instead.

The exchange is RST, NAME, S/P/C, Fists # (or power level). Hopefully, operators will spread out a little but look around XX.058 and you will hear plenty CQ FISTS. No WARC bands.

All are invited to join us for the fun. Also, all are invited to become Fists members as well. We are not a QRP club but there is a large QRP population in the club. The main objectives of the Club are to further the use of CW on the bands, encourage newcomers to use CW and engender friendships among members. These are not out of line with what I have seen here on QRP-1. Further more, Fists is good for CW and as QRPer's, I believe that is important to us. Fists is an international, positive voice for Morse and growing fast. (Fun too.)

Anyway, give the Sprint a try and be sure to send in your logs. Be sure to mark them as QRP or QRO. All are important to us even if they don't contain many contacts. Hope to see a bunch of you on Saturday. You may want to visit our web site at: <http://www.FISTS.org> You will find full Sprint rules there.

Send your logs within 30 day to:
Tom Waits (AC5JH)
4346 Rose Garden Circle
Zachary, LA. 70791

E-mail is ok too. Send to: JkHampton@aol.com

72 gud luck and looking forward to Saturday
de AC5JH
Tom

Date: Thu, 07 May 1998 21:57:39 -0500
From: Chuck Carpenter <w5usj@webwide.net>
To: qrp-l@Lehigh.EDU
Subject: [10469] 10 Meters (and 6)
Message-ID: <3.0.1.32.19980507215739.00692db0@mail.webwide.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Checked out the equipment on 10 meters today. Everything is working and I'm ready for the 10 meter fox hunt. Heard a few stations on SSB and CW about 2pm local. Didn't work anyone though. Heard more CW about 9 pm local and lots of pirate ssb in the low end of the CW band.

Did work DM33 SSB QRP on 6 meters about 9:35pm local during a brief opening. Also heard a KA4 calling CQ CW but couldn't make contact. My temporary antenna on 6 is a Diamond Discone up about 20 feet. Got to get my VHF antennas back in shape 8^)...

72/73 -- Chuck, W5USJ, EM22cv
Rains County, Eagle Capitol of Texas
ARCI # 5422, QRP-L # 1306, FISTS # 3984

Date: Fri, 08 May 1998 03:11:53 GMT
From: mwattcpa@earthlink.net (Marty Watt)
To: qrp-l@Lehigh.EDU, tcg@k4ro.net
Subject: [10470] Other For Sale stuff
Message-ID: <35537677.99413574@mail.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable

=46or those not interested in Dayton ... :)

Two 4AH sealed lead acid batteries (from Radio Shack, retail \$25 ea., = asking \$19 ea.)

Two Heathkit 200W/2KW HF Watt/SWR meters (\$45 each, one has manual if = needed)

One Santec W200 20/200W HF-150 MHz wattmeter/swr meter, measures = reflected power directly. (\$55)

Looking for used GPS, CMOS SuperKeyer III, Vibroplex Brass Racer, QRP = full-cw coverage multi-band rig, like a Wilderness Sierra.

Prefer trades, cash OK. Delivery in metro middle/west tennessee, = shipping extra on cash transactions, I pay shipping on trades.

--

72 es 73 de Marty, KM7W

=46ranklin, Tennessee <http://home.earthlink.net/~mwattcpa> =
=20
NorCal #2031 -- ARCI #7514 -- QRP-L #0953 -- AK/QRP #098 -- Grid EM65

Date: Fri, 08 May 1998 03:11:57 GMT
From: mwattcpa@earthlink.net (Marty Watt)
To: qrp-l@Lehigh.EDU, tcg@k4ro.net
Subject: [10471] MFJ-564B Paddles for Sale or Trade
Message-ID: <35527489.98919366@mail.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable

I have a set of MFJ-564B paddles I'd like to sell or trade. Won them at = a hamfest, brand new (have added cables and stereo plug to the end). = Retail (according to the included price sticker!) is \$46.95 plus tax and = shipping. MFJ web page lists them at \$49.95 plus shipping. I'm asking = \$30+shipping, or equivalent in trade for *something*.

Ideally, I'd swap the paddles *and* the trusty-rusty CMOS superkeyer II =
for a
CMOS SuperKeyer III with NO paddles. I ship both ways.

--

72 es 73 de Marty, KM7W

=46ranklin, Tennessee <http://home.earthlink.net/~mwattcpa> =
=20
NorCal #2031 -- ARCI #7514 -- QRP-L #0953 -- AK/QRP #098 -- Grid EM65

Date: Thu, 07 May 1998 20:35:18 -0700
From: Jay & Jackie <jayboy@psnw.com>
To: qrp-l@Lehigh.EDU
Subject: [10472] (Computer help) Thanks
Message-ID: <3.0.1.32.19980507203518.006c834c@mail.psnw.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Thanks all for the suggestions...The lack of transfer is my real problem
(basically will not even bring up a home page)...I called USR today and
they would not touch this modem since they call it a OEM (?) which is
apparently sold only to dealers for installation in pc's. So called the
computer shop down in L.A. and told them to send up another....3 days to wait.

Don't want to pull the modem out of this machine and try it in the new one
since it would without question screw up both machines (Murphy is very much
alive here).

I will try checking "actual speed" when the new gets here....And yes, I am
almost across the street from the "provider"...Actually about 5 blocks.

Ah, the weekend is almost here.

73, Jay, W6JDB

Date: Thu, 07 May 1998 22:36:51 -0500
From: "Harley L. Miller" <hmiller@sound.net>
To: qrp-l@Lehigh.EDU
Subject: [10473] Re: Unsoldering
Message-ID: <35527DD3.2867@sound.net>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Stephen W. Gibson wrote:

>

> Can one of you experts tell me how to clear a hole in a PCB without
> destroying the "solder thru" connection by drilling it out? I misread

Hi,

>When my desoldering pump can't reach the hole or isn't effective, I use
>a needle of a suitable thickness, or the back end of a drill bit to >push
>most of the solder out, while heating up the hole, of course.

=====

I keep a box of the round type toothpicks, used in conjunction with a
soldering iron, for desoldering holes; works well for other close-in
delicate operations. Can even pick your teeth with them.

Harley L. Miller hmillersound.net

Date: Thu, 07 May 1998 21:55:21 -0600
From: "Timothy J. Pettibone" <tpettibo@NMSU.Edu>
To: qrp-l@Lehigh.EDU
Subject: [10474] 10m cw qso - special
Message-ID: <3.0.3.32.19980507215521.00693128@cnmailsvr.nmsu.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I know everyone else is going to Dayton, but thought I'd mention a very
special 10m cw qso that I had tonite. Got a phone call from Skip, KD5EAU,
one of the students that took the weekend crash course for the tech
license. Except Skip also took the 5 wpm code test and got his tech +. He
got his Yaesu something or other in the mail today and wanted to have a
qso. So we had a nice 8 wpm (boy, that is slow!) qso on 10m tonight, his
first. He did make some 10m SSB contacts last weekend and worked several
south american stations. I think he may have gotten a bigger kick out of
the cw contact. His fist was slow but crisp and really sounded good. He
was running 20w and I told him to turn it down! He's a third grade teacher
- think of the influence he's going to have.

It doesn't get any better than this!

Tim K50I

p.s. By the way, another student passed his Tech on retake in El Paso last week. We held a retest with 4 retaking last night. One passed the Tech and 2 passed the novice element (ages 11 and 13). Another didn't pass both elements but is planning on retaking soon. Ham radio is alive and well.

Date: Fri, 08 May 1998 03:03:59
From: "KA5T Larry Wise" <lewise@inetport.com>
To: "qrp" <qrp-1@lehigh.edu>
Subject: [10475] Dayton
Message-ID: <199805080404.XAA03064@admin.inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

You guys going to Dayton have fun. Looks like I'm not going to be able to make it this year....

However HamCom and Ft Tuthill are different stories.....See some of you there....

Larry KA5T

Georgetown, Texas
lewise@inetport.com

Date: Thu, 7 May 1998 21:11:44 -0700
From: Conrad <radman@best.com>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [10476] K2-Preview (Part One)
Message-ID: <01BD79FC.BE135760@radman.vip.best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

K2 - Atop the Summit

By Conrad Weiss - NN6CW

When Wayne Burdick / N6KR returned my phone call - less than two weeks prior to Dayton - and invited me over to his lab for an interview and a personal tour of the K2, how could I pass it up? I grabbed my car keys, notebook and headed for my car.

The K2, for the few who've not heard of it, is a new QRP multi-band kit from the US company, Elecraft, Aptos, CA - owned by Wayne Burdick and his long-time partner, Eric Swartz / WA6HHQ. Wayne explains that he's the rapid-prototyping/design-guy and Eric is the financial wizard who adds the final 10% of design polish to the finished product - their talents complement each other. Wayne's designs are well-known and include: the NorCal 40, the Sierra, the SST and now the K2. The K2 was first announced at Pacificon '97 to a standing-room only packed-house and it will now make its world debut at Dayton '98.

For those less familiar with Wayne Burdick, his designs began at age 13 when he worked a 200-mile QSO on a "wad of 2N2222's smaller than a 9-volt battery" - a Burdick-design, naturally. He's been designing QRP transceivers ever since although his formal education is an eclectic blend of studies in Human Interface Design and Human Factors. Wayne feels that his unconventional education - from an RF design perspective - coupled with his passion for QRP has given him a design philosophy that's atypical of a classically-schooled RF design engineer. He's a self-proclaimed environmentalist and minimalist and utterly beams when he talks of discoveries he's made enabling him to reduce parts-count or conserve energy. Given the time, he could expound for hours on the topic of making common transistors do "double-duty" in RF circuit design. With thousands of QRP back-packers carrying his miniscule "SST" to the pinnacle of their own distant mountain, there's more to Burdick's design philosophy than mere talk. He's proven his philosophy commercially viable thus setting the stage to conquer K2.

In his lab, Wayne poured us each a glass of bottled water - pure crystalline glacial run-off -- devoid of any unnecessary minerals - the extraneous components of common tap water. We chatted for a few minutes prior to beginning the ascent. Regarding transceiver design: he humbly says he's learned it the "hard-way" through countless

experiments over many years in the lab playing at his beloved QRP hobby. He took me on a tour of his early prototypes that he keeps close at hand. I surveyed over a decade's-worth of transceivers - all well-crafted, handsome-looking projects - some that went on to commercial fame and, others that were "personal learning experiences." I surveyed his well-lit lab and it too was an exercise in minimalism no rack-mounts of H-P spectrum analyzers and the like - just a Tek scope, a couple of DMMs, a power supply and a few other little instruments. We sipped some more glacier water as Wayne explained that the roots of the K2 project stem from the sad demise of Heath's "Green Boxes" - among them, the HW-9 - which is actually brown in color - signaling the end of an era that Wayne Burdick intends to bring back to life. He says the K2 will offer the guy/gal who must "roll their own," his/her own version of "what an HW-9 might have evolved into had Heathkit remained in the kit business." Such a design would have to accommodate the elementary skills of the beginner and appeal to the advanced kit-builder as well. Beyond that, if the buyer is paying \$600 for the CW-version of K2 it would have to deliver an unusually high level of performance and features to attract a market - especially amongst the ultra-price conscious QRP community -- a very difficult engineering challenge for any designer. Did Wayne and Eric manage to achieve their goal? Well, let's have a look.

First off, we had only 90 minutes to meet so we had to make the most of it. We started by carefully listening to the receiver - to me - the most important part of any transceiver. We tuned around 7.040 MHz - the 40 meter QRP "watering hole" -- and found several CW stations both weak and strong. The K2's tuning rate, audio quality and filtering was superb. Wayne wanted to show-off his choice of filters and we "tightened-down" on an average CW signal wide to medium to narrow. Narrow was ultra tight and yet I was amazed at the lack of "ring" or "hollowness" present. It sounded as good as the best receivers I've used and considerably better than my own HW-9. Yet, in fairness, we didn't have the band conditions to fight a DX pile-up and go "cheek-to-jowl" with 100 other CW ops gunning for the one guy in Madagascar, so I'll have to suspend final judgement until contest conditions warrant more testing. We tuned in a couple of SSB stations, even though the SSB option board was not installed in the K2 at the time. It was equally nice sounding. It's a wonderful receiver and it should be great fun to

really ring it out under more demanding conditions.

Next, I wanted to check out the T/R switching time and CW break-in. We did some keying so I could get a feel for full break-in operation. It's certainly very fast, quiet and clean. I kept looking for faults and I wasn't finding them. I could have easily spent the next several hours working QSOs with the guys on 40 meters. And, with the K2 running an embarrassing 22 watts of RF-out, we could have worked anything we heard I would imagine. But I was satisfied that the NorCal gang had already established that the K2 is very capable of running QSOs so, I chose to move on to unexplored ground - the internals of the case-works, Wayne's philosophy re: the K2's options and how the K2 concept works as a "grab-and-go-all-in-one-box-transceiver."

Here we go: for \$595 (US) you get the kit for the CW-ready version of the K2. The SSB board is an option -- as well as the 160-meter band kit. If you don't require SSB or 160 meters you don't pay for them. In addition, there are a host of internal options that will be released after the K2 is launched. These will include an internal 10 watt ATU (antenna tuning unit) and a 3AH internal gel cell battery. There's a remote-head option for the mobile operator, allowing him to remote-mount the "head" of the K2 via an interconnect cable in the style of the popular Japanese mobile transceivers (Icom-706-MK-II, etc.) For the "QRO" operator who needs more power there will be an internal PA option (power amplifier) to crank the K2 up to some yet to be determined power level of 50-100 watts. There's even talk of an external PA, and an external hi-power ATU for the ham who needs that configuration. At this writing, those options are more of a twinkle in Wayne's eye. The primary mission is to get the base K2-CW version out the door to the QRP masses, then follow on with the rest of the goodies.

Wayne removed the top-cover of the K2 and explained how the options fit inside. As he lifted the top off I peered inside expecting to see a maze of boards, headers, interconnecting cables, and unexplainable complexity. Not true! The innards of the K2 more closely resemble the Grand Canyon rather than some enormously threatening mountain peak. By design, the K2 is a massive void inside. At the bottom of the "canyon" there's a big flat 7.5" x 7.5" main board that covers the entire floor of the case. In front, there's a display board and a daughter board

on stand-offs just behind it. The inside cavity has been left wide open to receive the internal 3AH gel cell and the ATU. Even with those in place, the top-firing speaker in the upper case cover remains. And on the main board far below, there's space for the SSB option board, the 160-meter band kit - with separate BNC 160-meter receive antenna, and the optional noise blanker board.

<Half-Way to the Top -- continued in K2: Part Two>

Date: Thu, 7 May 1998 21:12:22 -0700
From: Conrad <radman@best.com>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [10477] K2 Preview (Part Two)
Message-ID: <01BD79FC.D3F1CA80@radman.vip.best.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

<continued from K2: Part One>

Feature-wise, practically anything the serious QRPer could wish for is standard issue - direct entry keys, RIT, XIT, A/B VFOs, MEMs, A or B antenna switching, RF power out, Keyer speed, Keyer mems, AF gain, RF gain, Mic gain, Display lock, Mic connector and a segmented bar-graph S-meter/RF power /ALC meter. There are visual "enunciators" on the LCD main display that give you an instant visual status of all the control settings we commonly forget about - especially as beginners in the hobby. For example, you will always know if you are on "A or B" VFO, which antenna you are on ("A or B"), whether your Attenuator is on, whether your RIT or XIT is enabled, etc. This interface is truly Wayne's pride and joy. And, it certainly shows that he's put some long hours of design time into it. It's extremely intuitive.

Segue to Conrad's house: As I write this, I'm actually looking at a model of the K2 - a cardboard "mock-up" I built for my own reference study. Nothing very secretive... I simply went to the Elecraft web site at: <http://www.elecrafft.com/> and took the dimensions, did some rough calculations based on what I surmised from looking at the real K2 and installed my own mock-up gel cell and ATU options with appropriate weight factors. I've spent

a number of years working on mechanical engineering and packaging projects for wireless products in the private sector. Thus, it was easy for me to knock out a quick "weight-biased" form model of the K2, in corrugated board, complete with a laser printed image of the front panel from the Elecraft web site. It's an interesting exercise and I would encourage anyone to try this. With the K2 model you can literally "see and feel" the volume, dimensions and weight of a K2.

So, fully loaded with options, the K2 is a 7.5 pound transceiver with internal ATU and gel cell needing only a set of paddles or Mic and an antenna. Gone are the days of rounding up all your loose gel cells, the PL-259 interconnect coaxial cables, the SWR/WATT meter, the external ATU, an external keyer, external speaker and of course the canvas/plywood/plastic/titanium suitcase contraption that we've built to carry it all. The K2 offers the same functionality as the mountain of gadgets in your field kit - all in one elegant package just a bit larger than a basic Kenwood TS-50 or Icom-706-II - and those wouldn't have any internal batteries or ATUs. However, they would have some overly greedy receive current demands to whittle your gel cell down to nothing in no time. (Mind you, these are my own calculations but, I'd be surprised if I'm off by more than a pound full-up.)

Segue back to Wayne's Lab: So, this raises the question as to how current-hungry the K2 is on receive. I asked Wayne to minimize the receive current, which he did by shutting off the backlight, "asking" the uP (microprocessor) to reduce the holding voltage on the non-latching bandswitch relays - fine as long as you stay on the same band - and he minimized the audio to the speaker yielding 122 ma. You can actually watch the receive current "drop" on the main display read-out as you use the main menu to "toggle-off" whatever features you don't need. You'll actually be reading the descending receive current in milliamps! In addition, you can check your battery voltage or power source to see how your gel cell is holding up. This only covers about five percent of the functionality of Wayne's display interface! "Way cool!" -- as we say here in California!

Wayne explains that the documentation, construction, test and alignment will favor the beginning kit-builder

in the same way that Heath once did. It will be a very non-threatening step-by-step construction process - all thru-hole components with big solder pads - and no SMTs. The K2 has a built-in frequency counter that will allow you to align the rig with simply a multi-meter (DMM) - no scope is required. You can also add an additional BNC connector to the rear apron to use the frequency counter for taking other lab measurements - nice touch!

Suddenly the phone rang in Wayne's lab. It was Eric - who couldn't join us for the interview - informing Wayne that it was time to whisk the K2 off for final painting and silk-screening for Dayton. I wanted to stay and play but my 90 minutes were up - all too quickly.

Summary: Certainly, there's been a lot of speculation over whether Wayne and Eric could really pull this project off. I've heard some doomsayers claim the \$600-mark is too high for the "money-stingy QRP crowd." Others have ventured Wayne and Eric couldn't meet the target dates or prices. I can understand a certain amount of skepticism when you're looking at a project that's as radical as the K2. It comes with the territory when designers break new ground.

The guys at Elecraft have done their job and, they've done it extremely well. Indeed, Wayne took a 30-day sabbatical from his regular job in February to make sure the project would stay on course and maintain its schedule and target price.

While these writings are far from a real lab test, I can assure you that the K2 is for real! And, for 90 minutes I could not find any significant failing or shortfall in Wayne's design philosophy or the K2's performance. I found elegance, design brilliance and great performance. I finally found great package-design that's been long overdue in rigs designed for QRP field operations. And, I found solid evidence of the untold hours of labor that the guys at Elecraft have poured into this project.

In a week from now when the K2 debuts at Dayton, I believe it will set a new standard of performance that will be overwhelmingly welcomed by the QRP community - even at \$595 (US). It will invite many quality-conscious, do-it-yourself-hams to join us in this amazing sport of QRP kit-radio. And the "rising tide" of

QRP newcomers will benefit all of the American and foreign QRP kit companies.

The K2 will be a Grand Slam Home Run.

Special thanks to Wayne Burdick and Eric Swartz of Elecraft for making this last-minute interview and demonstration of the K2 possible.

Standard disclaimers: I am not related in any way to Elecraft.

For further information contact Elecraft at:
<http://www.elecraft.com/> or visit them in booth #196 - North Hall at Dayton.

72 - Conrad Weiss - NN6CW.

Date: Fri, 8 May 1998 00:54:12 EDT
From: PGSPersEng <PGSPersEng@aol.com>
To: qrp-1@lehigh.edu
Subject: [10478] Elmer 101: U5 osc circuit
Message-ID: <1bc6cc89.35528ff5@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Hello Elmers out there...

Can anyone please explain the details of the oscillator circuit connected to Pins 6/7 of mixer U5?

I don't see this configuration anywhere on the SA612A datasheet; the closest thing but not quite the same is Fig 7a, operating the crystal in overtone mode, which isn't going on here. I also don't see this type of configuration in any of the other references I've checked.

Do RFC2, C28 and C29 set up some sort of resonant circuit to get rid of harmonics from the crystal?

Why is each component where it is? What is it doing?

Also of great interest to me, how do you arrive at the values?

Mixer U3 uses a similar crystal-based circuit except without the choke and adding C16. Why not use the same basic circuit as in U5?

Please help solve another mystery for me!

Thanks,
Paul, AA1MI

Date: Fri, 8 May 1998 01:22:56 -0300
From: "Prof.Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
To: <qrp-1@Lehigh.EDU>
Subject: [10479] RE: Antenna Simulator
Message-ID: <01bd7a38\$fa091b60\$07199e03@luis>
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----_NextPart_000_0070_01BD7A1F.D4C50B20"

This is a multi-part message in MIME format.

-----_NextPart_000_0070_01BD7A1F.D4C50B20
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Very interesting topic !

I found that it was nice to build a simple R, C, L network (all three =
elements
variable) that could be connected in such a way as to provide the =
complex
impedances found in real like antenna-transmission line combinations.
One of these networks helped me fix a transceiver that had very rare
behavior... it worked with some antennas that had 1.5 or 2.1 SWR and
it simple oscillated like a wild beast with another antenna that had the
same SWR.

So, I reproduced the SWR conditions with two different reactance =
patterns,
and found out that the output network of the transceiver simply could =
not
tolerate the SWR condition generated by an INDUCTIVE circuit, while
it tolerated the CAPACITIVE conditions.
Assembling such a network in practice involves some careful work, as

you want the stray inductance and capacitance to be at a minimum.
One way of doing it is by having non-inductive resistors from about 5 =
ohms
to about 200 ohms that can be connected to the network individually (no
switching is possible, as switch will add a lot of non-wanted XL and XC,
plus a variable capacitor with low inductance and a variable inductor =
with
low capacitance !
That's all you will need...
Once the network is assembled, say for 14 mHz, you can enjoy duplicating
the conditions that make those rigs oscillate.... You can compare =
against
a purely resistive dummy load, and see how things change !
The networks have to be tailored for a specific band or bands...
I have one that works well on 40,30 and 20... but had to make another =
one
for 15.12 and 10 meters.
Hope this will help those interested in antenna + transmission line =
simulations,
as they should be called, because to really simulate just the antenna, =
things
are different... But that's another story...
72 and good luck simulating antennas + transmission lines to help you =
tame
those solid state finals !!!

Arnie
C02KK
Arnie Coro C02KK
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phone: 53-7-814243
phone res: 53-7-301794
Postal address
Arnie Coro
Dxers Unlimited
Radio Havana Cuba
Po Box 6240
Havana
CUBA 10600

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charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD W3 HTML//EN">
<HTML>

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http-equiv=3DContent-Type>

<META content=3D'"MSHTML 4.71.1712.3"' name=3DGENERATOR>

</HEAD>

<BODY bgColor=3D#ffffff>

<DIV>Very interesting topic !</DIV>

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no</DIV>

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and=20

XC,</DIV>

<DIV>plus a variable capacitor with low inductance and a variable =
inductor=20

with</DIV>

<DIV>low capacitance !</DIV>

Date: Thu, 7 May 1998 23:39:44 -0600 (MDT)
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-l@Lehigh.EDU
Cc: GQRP-L List <qrp-l@blacksheep.org>
Subject: [10480] SOLAR SUMMARY CHARTS
Message-ID: <Pine.SOL.3.91.980507233811.29554A@zia>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

SOLAR ACTIVITY QUICK-LOOK *** Updated: 7 MAY 1998

```
=====
----- SOLAR ACTIVITY -----      ----- GEOMAGNETIC FIELD ACTIVITY -----
10cm flux average:  130                A-Index:  15
3-5 day forecast:  110-120            3-5 day forecast:  50 -> 15
```

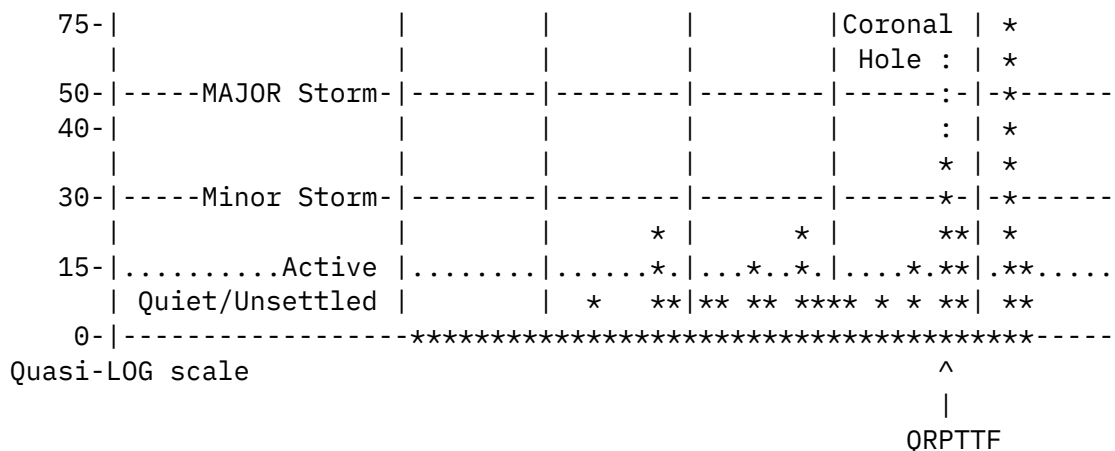
This past week, solar activity has been moderate to high with numerous large M and X class flares. These disturbances have had profound effect on HF communications, including periods of HF black-outs, due to the resulting geomagnetic storms.

The X-class flare on wednesday is predicted to impact the earth friday afternoon, triggering yet another MAJOR to SEVERE geomagnetic storm. The particle radiation from the other M flares will either miss the earth, or skim it. This means conditions over the weekend may be much better than yesterdays predictions.

SOLAR

FLUX	NOV 97	DEC 97	JAN 98	FEB 98	MAR 98	APR 98	MAY 98
160							
150							
140						*	
130						***	*
120					* *	***	*
110	*	*			*****	****	***
100	**	***	*		*****	****	***
90	**	***	*	**	*****	****	***
80	**	***	*	**	*****	****	***
Flare	->E	E	E	M	M	M	X X MXX
Class				E			E EE
	M=M-class flare		X=X-class flare		E=CME (Mass Ejection)		

	GEOMAGNETIC	JAN 98	FEB 98	MAR 98	APR 98	MAY 98
	A-INDEX					
	=====					
100	-----SEVERE Storm-----					*
					Due to	*



72, Paul Harden, NA5N

National Radio Astronomy Observatory
VLA/VLBA Radio Telescopes
Socorro, NM, USA, Earth

Date: Thu, 07 May 1998 23:20:31 -0700
From: Bill Todd <bill@willapabay.org>
To: russ@natworld.com
Cc: qrp-l@Lehigh.EDU
Subject: [10481] Your article and effort!
Message-ID: <3552A42F.2CE0@willapabay.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Wow Russ -

I am impressed! Looks like you put a great deal of effort into your new Sojourner on-line magazine. Well written articles, good pictures!

Your article on the two Field Day contest operations, makes excellent sense. It reminds me about our NWQ Field Day operation back in 96'. I spent a good two hours trying to get our 80 meter dipole up an additonal 30 feet (it was already at 40 feet). I finally did raise it the additional 30 feet (by the way), but it made me so tired that I went home and took a nap for two hours...and missed out on some operating time.

Can't wait for issue #2.

CUL, Bill-N7MFB
NWQ Newsletter Editor

Date: Fri, 08 May 1998 02:55:06 EDT
From: "Brian Jones" <brian_jones@uk.ibm.com>
To: qrp-1@Lehigh.EDU
Subject: [10482] Radio Shack 21-527 Pwr meters
Message-ID: <199805080655.CAA37576@nss4.cc.Lehigh.EDU>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

OK folks you've done it again - I found a Radio Shack with one of these beasts on the shelf at 59.59. Inquiring re closeout I purchased one at 19.97+tax. Thanks Guys!

So anyone in the bay area the RS at Eastridge Mall southside of San Jose has at least the display model left!

Just in case anyone wonders whether my US business trips are spent scouring RS for bargains I got chance to call in just 3 RS outlets this trip - the first had the multiband antennas, the second drew a blank and this was the third - guess I was born lucky. Mind you could have easily spent serious test equipment dollars on my trip to Fry's!!!!

Thanks for posting the info.

Brian G0UKB KB8YKJ

Brian Jones
Java Technology Centre
HURSLEY MP 146 Ext 246896 (+44 1962 816896)
BEJONES AT WINVMD bejones@hursley.ibm.com

Date: Thu, 07 May 1998 07:45:55 -1000
From: Eddy Tchung <rava@mail.pf>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [10483] QRP+ transceiver !
Message-ID: <3551F353.BB2B124@mail.pf>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi everybody,

I am looking for the wide-range extended TX mods for the following
transceiver :

QRP+ Index Laboratories.

Could someone help, pse ?

Thks in advance,
& have a nice day !

73,
Eddy - F050K

--

Eddy Tchung, F050K
81, Ch. vicinal de Taunoa
PO Box 491, Papeete
Tahiti I., French Polynesia
e-mail : rava@mail.pf
~~~~~

-----  
Date: Fri, 8 May 1998 06:48:39 -0400 (EDT)  
From: "Jerry W. O'Dell" <psyodell@mail.provide.net>  
To: qrp-l@Lehigh.EDU  
Subject: [10484] receivers  
Message-ID: <199805081048.GAA16409@mail.provide.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I plan to buy an HF receiver at dayton (probably tube type).  
I don't want solid state input, because I inevitably blow it out.

Most people will say buy a Drake R4 something. Well, I owned a B and  
a C (new), and hated those radios. Just something about them. They heard  
all right (lousy on ten), but I think the audio response was the  
problem. Kind of like listening to a very low fi mini-boom-box.

Any other ideas. I'm kind of leaning to a 2B or one of the zillion  
NC300's you see down there. I'd really like an NC-400 (I can dream

can't I).

Jerry W8GND

-----  
Date: Fri, 8 May 1998 08:37:50 -0400  
From: klhartman@lucent.com  
To: qrp-l@Lehigh.EDU  
Subject: [10485] Elmer 101  
Message-ID: <199805081237.IAA07831@nsgqs.cb.lucent.com>  
Content-Type: text

Hi qrp-lers,  
I think the badger got my earlier post. Please overlook me if I overlooked it.

I wanted to match the crystals as closely as possible for my SW-40+ but I had no frequency counter or dedicated oscillator to check crystals. However, I had built a MRX-40 (K8IDN, Steve Borstein) receiver with socket pins for the IC's and crystal. This allowed me to plug in each crystal and listen to its signal on a shortwave receiver. I tuned the SW receiver to the 5th harmonic of the crystals (20 MHZ in this case) to the frequency mismatch between them more easily heard. It was easy to sort them to the three that were most closely matched. In a few minutes I had two crystals that were 'dead on' and a third that was less than a half note away for the SW-40+ IF filter. The other two will be fine for the BFO and xmit osc. Glad I had the sockets and that handy little MRX-40. Actually Dave Benson did a great job of matching the crystals (two of them 'dead on' at the 5th harmonic), but an inquiring mind wanted to know. Thank you Dave and Steve.

72,  
Kaye Hartman, K8GZ      Lancaster, OH      klhartman@lucent.com

-----  
Date: Fri, 08 May 1998 06:05:32 -0700  
From: Jay & Jackie <jayboy@psnw.com>  
To: qrp-l@Lehigh.EDU  
Subject: [10486] RE: K2 Preview  
Message-ID: <3.0.1.32.19980508060532.006bf150@mail.psnw.com>

Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Standard disclaimers: I am not related in any way to  
Elecraft.

You should be.....sold me....

Jay, W6JDB

-----  
Date: Fri, 8 May 1998 09:14:38 EDT  
From: Bensondj <Bensondj@aol.com>  
To: wb4nbi@erols.com, qrp-1@Lehigh.EDU  
Subject: [10487] Unsoldering- one more time  
Message-ID: <af4f5cae.35530540@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

gang-

Stephen W. Gibson, <wb4nbi@erols.com> wrote:

>To: qrp-1@Lehigh.EDU  
>Subject: [10408] Unsoldering

>Can one of you experts tell me how to clear a hole in a PCB without  
>destroying the "solder thru" connection by drilling it out? I misread the  
>color code on a resistor and in removing it managed to block both holes.  
I've tried copper braid without success.  
..<<

I'm partial to a dental probe or "explorer"- they're made of a stainless alloy  
and solder doesn't stick to them. Heat the joint until the solder melts and  
push the probe tip through. These are available at any fair-sized hamfest for  
a couple of bucks.

73, Dave- NN1G

-----  
Date: Fri, 08 May 1998 09:31:48 -0400

From: Nick Franco <kf2ph@bnl.gov>  
To: klqrp@waterw.com, liqrp@waterw.com, qrp-1@Lehigh.EDU, russ@natworld.com  
Cc: Mike Lydick - AA2Q0 <aa2qo@aol.com>  
Subject: [10488] QRP Bone Dig Expedition Information  
Message-ID: <35530944.CFB5CE94@bnl.gov>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Information forward for Mike - AA2Q0:

Friends, Romans, Elmers, lend me your cans....

I am pleased to introduce the first annual QRP Bone Dig, an event designed to promote the virtues of Canine assisted wilderness travel, and light weight-low power communications.

On May 22, 23, 24, and 25, George Collier (KC2BIS) and Michael Lydick (AA2Q0) will be hiking/camping along NY's Northville Lake Placid trail. This historical trail runs directly through New York's Addirondack Wilderness Park, a section of wild terrain several magnitudes larger than Yellowstone National Park. What makes their trips unique is the fact that George and Mike camp using Alaskan Malamutes (5 in total) to pack / sled their equipment and supplies in and out.

Ergo, the QRP Bone Dig.

George and Mike will be operating three different bands, for three nights. The premise of the Bone Dig is to find their "buried" signal deep within the QRM, QRN and QSB. Your shovels will most likely be your RF Gain and Audio Filter Controls. Your reward for finding the bone will be an official QRP Bone Dig QSL card commemorating the event for all eternity.

So, listen for George or Mike calling "CQ BD CQ BD DE AA2Q0 or KC2BIS".

Respond with Name, RST, STATE, and POWER.

Michael will post the results of the Bone Dig on the Bone Dig site page about a week afterwards, with pictures from the trip and descriptions of their harrowing tales of black bears, lightning storms, and smelly wet dogs.

For details on scheduled times / freq.'s, check out the Bone Dig web site at

<http://members.aol.com/aa2qo/qrp/index1.html>.

Its a good site, with pictures from their last QRP expedition this past January when they took the dogs in with sleds and snowshoes....(Check out their Photo Gallery Link)

On behalf of George and Mike, thanks for your involvement and participation.

Gentlemen. . .good digging.

#### SCHEDULE

##### 80 METER

DATE: MAY 22, 23, 24  
FREQ: 3.686Mhz [ + or - 10Khz ]  
TIME: 0030-0230 UTC

##### 40 METER

DATE: MAY 22, 23, 24  
FREQ: 7.040Mhz [ + or - 10Khz ]  
TIME: 0000-0130 UTC

##### 30 METER

DATE: MAY 23, 24  
FREQ: 10.125Mhz [ +0 / -10khz ]  
TIME: 0130-0230 UTC

-----  
Date: Fri, 8 May 1998 08:29:39 -0500  
From: Bob Reynolds <breynold@sigg.com>  
To: qrp-1@Lehigh.EDU, psyodell@mail.provide.net

Subject: [10489] receivers -Reply  
Message-ID: <98May8.082635cdt.26884@firewall.sigg.com>  
Mime-Version: 1.0  
Content-Type: text/plain  
Content-Disposition: inline

>>> "Jerry W. O'Dell" wrote  
>>> I'm kind of leaning to a 2B or one of the zillion NC300's you  
>>>see down there.

I would take the 2B over the NC300 any day. I had both for a while. The 2B offers a product detector for CW and SSB, the NC300 does not. However, the NC300 covers 160 where the 2B does not. The 2B has extra xtal positions for other bands, such as the WARC bands. Also, I ran a xtal controlled converter for 20, 15, and 10 on the NC300. It made a world of difference in stability and sensitivity over the "stock" bands on the NC300. Eventually the NC300 was traded off. Just my opinion.

73, Red K5VOL

-----  
Date: Fri, 8 May 1998 09:58:57 EDT  
From: MNHopkins <MNHopkins@aol.com>  
To: qrp-l@Lehigh.EDU  
Subject: [10490] Six Meters, ferrets at Dayton  
Message-ID: <ce89ea99.35530fa2@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

So 6M QRP won't be completely skunked at Dayton, I'll be bringing an example of the Handbook transverter and serial # US-2 Kanga 6M TX to the show and tell opportunities. (Kanga TX # US-1 is my beacon, still beeping after 3 years.) This example of the 3W transverter shows several building styles and the Kanga has a remarkable output circuit that looks like a kid's puzzle.

Also look for my trademark ferrets, realtives of skunks by the way, in the open air venue around the HARA. Charlie, the white one bites, but the raccoon-looking Bob is gentle.

They ferret out the bargains and weasel on the prices -- true hams.

73 de ab5L, michael in dallas, student of Tecraft and International (ICM) ham products and mementoes of Six Meters' Golden Age: 1957-58  
Michael Hopkins  
Box 226841  
Dallas, TX 75222 MNHopkins@AOL.com

-----  
Date: 08 May 1998 10:42:05 -0400  
From: Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>  
To: PGSPersEng@aol.com  
Cc: qrp-l;;  
Subject: [10491] Re: Elmer 101: U5 osc circuit  
Message-ID: <1998May08.104205-0400@[130.113.234.7]>

In <1bc6cc89.35528ff5@aol.com>, PGSPersEng wrote:

>Can anyone please explain the details of the oscillator circuit connected to  
>Pins 6/7 of mixer U5?  
>

Answer:

There's a transistor inside U5: base comes out at pin 6 and emitter comes out at pin 7. All the biasing is inside the chip. So you've got a Colpitts oscillator, similar to the VFO (Q2).

In case you don't see it, here are the analogous parts:

C5 is analogous to C29

C4 is analogous to C28

These are the two critical parts to this Colpitts configuration, providing the positive-feedback path required by any oscillator.

There's no single part that is analogous to the crystal. It is the resonating element, containing both inductive equivalent and capacitive equivalent of a resonant circuit.

But what may be confusing is that 22uH choke. Let's take a closer look at its purpose. The short explanation is that its there to pull the crystal to a lower resonating frequency.

A little background: we need about an 800Hz offset between RX and TX. That's the "sweet spot" CW note that most folks like to hear. This offset is done by having U3's 4MHz. BFO crystal run at a frequency that is 800 Hz. higher than U5's 4MHz. crystal.

The 22uH choke pulls Y5's resonating frequency lower by adding some inductive reactance to the crystal's own. Now 22uH is a lotta inductance. If it only pulls the crystal by 800 Hz. then Y5's own internal inductance must be absolutely HUGE. And it is. Inductive reactance inside the crystal is a fraction of a HENRY. That's astronomically big compared to Q2's resonating inductance of 2.5 MICROhenry. So you can see that pulling a crystal's frequency

is really difficult.

Now C28 and C29 also affect U5's oscillating frequency. You'll notice that C29(150pf) is much larger than U3's equivalent: C18(47pf). This was done to keep U5's oscillating amplitude low, in an effort to reduce U5's spurious frequency output at pins 4, 5. Having C29 large also helps lower the resonating frequency of Y5. But not enough. Adding 22uH to the crystal pulls Y5 down some more.

If you've got a working rig, with working RX and TX, you can try this experiment to explore the resonating frequency of U5's 4MHz. oscillator. Since some may be following the construction sequence on QRP-L (and not have U3 wired yet) I'll come back to this experiment later on....

Short out the 22uH choke (RFC2). This will raise the oscillating frequency of U5, much closer to the oscillating frequency of U3. You should either hear no sidetone, or a very low-frequency sidetone. This experiment demonstrates that the rig's TX/RX offset is set by the frequency difference between U3 and U5 oscillators.

Glen VE3DNL leinwebe@mcmaster.ca

-----  
Date: Fri, 8 May 1998 08:51:05 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: Joe Gervais <vole@primenet.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [10492] Re: QRPTTF Logs - Form Letter Receipts  
Message-ID: <Pine.SOL.3.91.980508085006.7367A-100000@GPFN1.GPFN.SK.CA>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'll heat up the soldering iron and you mow the lawn Joe...OK? ;-) 72  
- Bruce(VE5RC)

-----  
Date: Fri, 8 May 1998 07:55:32 -0800  
From: Ward Hill <w\_hill@ns.net>  
To: qrp-l@Lehigh.EDU  
Subject: [10493] Desoldering  
Message-ID: <l03130300b178d90c3f37@[207.159.15.32]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Tracy, N4LGH, #1453 wrote:



{One thing I've not seen mentioned about desoldering is the condition of the  
{wick.

{Most desoldering wicks come in a fairly well sealed container - for good  
{reason. It's been my observation that once the wick begins to oxidize,  
it's not  
{worth much anymore. Fresh wick of the PROPER size seems to do the best job.  
{Good wick is impregnated with rosin, which does not seem to weather well  
in its  
{powdered state. I will generally leave the wick in its container until it is  
{time to use it.

{Another point I want to make is that solder wick can't do much unless  
there is  
{a decent amount of solder to wick up. It's the FLOWING action that actually  
{pulls the majority of the solder out of the hole. Sometimes I find it  
easier to  
{ADD a little fresh solder to the hole, then apply the wick to the hole and  
the  
{heat to the wick. A clean soldering iron also makes a difference.

That is right on the money.

Especially adding th solder to make up enough mass for the wick to "feed"  
on. I also add some flux to the wick itself by dipping into some paste or  
dripping some liquid flux on to the wick.

Also, I trim off the wick at an angle so that the wick is pointed with a  
small amount of solder that has been wicked up at the very tip from the  
last time it was used. I do this between each and every use of the wick.

It also helps to wiggle the wick side to side (rapidly) while applying the  
wick to the area being desoldered (with heat being applied).

Hope this helps out.

72,

Ward Hill, WA6FUH

Engineer at KOVR, Channel 13 (CBS), Sacramento, CA

<http://www.kovr.com/index.htm>

"Where excuses stop, achievements begin"

Life Member ARRL NorCal #2660 10-10 #27139 QRP-L #1117 AK/QRP #249

All QRP, All home built/home brew equipment

w\_hill@ns.net

WA6FUH@KM6PX.#NCA.CA.USA.NOAM

-----  
Date: Fri, 08 May 1998 09:56:35  
From: Steven Weber <kd1jv@moose.ncia.net>  
To: qrp-1@Lehigh.EDU  
Subject: [10494] RE: Antenna Simulator  
Message-ID: <3.0.3.16.19980508095635.22cf4592@mailhost.ncia.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>I found that it was nice to build a simple R, C, L network ( all three  
elements  
>variable ) that could be connected in such a way as to provide the complex  
>impedances found in real like antenna-transmission line combinations.

Thanks for the info Arnie!

This could be a very good piece of test gear to have around. It's something  
I've never seen discussed in the literature. It's generally assumed that if  
a transmitter works into a 50 ohm dummy load, it will work with an antenna  
and that may not always be the case.

72,  
Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

-----  
Date: Fri, 08 May 1998 10:06:45  
From: Steven Weber <kd1jv@moose.ncia.net>  
To: psyodell@mail.provide.net  
Cc: qrp-1@lehigh.edu  
Subject: [10495] Re: receivers  
Message-ID: <3.0.3.16.19980508100645.22cfc8fe@mailhost.ncia.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>Any other ideas. I'm kind of leaning to a 2B or one of the zillion  
>NC300's you see down there. I'd really like an NC-400 (I can dream  
>can't I).  
>

I vote for the 2B (and matching 2BQ if possable) I don't use mine much any  
more, but used it extensively a few years back and it was a good performer.

I had a NC303 (you don't see many of those around) long time back and don't think it was as good as the 2B. The other thing about the NC300/303 is that they are a true boat anchor, very large and heavy!

Good luck hunting

72,

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

-----  
Date: Fri, 8 May 1998 11:22:51 -0400  
From: "Brian Hemmis" <K3USC@worldnet.att.net>  
To: <breybold@sigg.com>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [10496] Re: receivers -Reply  
Message-ID: <001001bd7a95\$2bba7e40\$03c5430c@BrianHemmis>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

What do you want the rx to do ? AM ? SSB ? particular bands ? I've had a couple 300's and currently a 303- for AM on 160-80-40 I don't think you can beat 'em for the price. (Yes I've had 75-A4's, A3's,A2's).I also have a collector's quality 2B and for SSB it does a fine job. Don't know what ur budget is but if you can swing \$500 or perhaps a little less I'd look at the more current Drake R-8. I've had several 8's and currently an 8A and that's one heck of a rx ! Other than some slightly weird ergonomics (which you'll quickly get accustomed) the 8 works as well as the A (some feel even better in the Synch mode). Sooooo.... my \$.02 worth ! Nice to have choices isn't it ! 73, Brian K3USC-Erie,PA

-----  
Date: Fri, 8 May 1998 11:24:05 -0400  
From: "Ken Burrough" <ne0c@1st.net>  
To: "QRP-L" <qrp-l@Lehigh.EDU>  
Subject: [10497] Receivers  
Message-ID: <001601bd7a95\$69a3cc20\$94d633d1@ne0c.1st.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Jerry W8GND wrote--I plan to buy an HF receiver at Dayton -----Jerry try an Kenwood R599D. I've had an R4B and it was good but the old Kenwood worked better in most cases. It has all the IF filters (AM,FM,SSb and CW), covers all the old ham bands 160-10 plus 30 meters and, do I have to, 11 meters. The other two WARC bands are missing. I have used the R599D as a receiver for an QRP transmitter and for RS-12 satellite work. I did use the Ameco preamp when working RS-12. The audio response was nice also.

Have fun looking around at Dayton--72/73 from Ohio--Ken/ne0c

-----  
Date: Fri, 08 May 1998 11:09:15 -0400  
From: Nick Franco <kf2ph@bnl.gov>  
To: klqrp@waterw.com, Art Searle - W2NRA <w2nra@netusa.net>, Bob Neukomm - W2VX <rneukomm@worldnet.att.net>, Brian Franco - N2ZCJ <n2zcyj@juno.com>, Clark Fishman - WA2UNN <cfishman@pica.army.mil>, David Maliniak - N2SMH <dmaliniak@penton.com>, Dean Marzocca - N2TNN <n2tnn@ifu.net>, Cc: Mike Lydick - AA2QO <aa2qo@aol.com>  
Subject: [10498] QRP Bone Dig - UTC Correction :-)  
Message-ID: <3553201B.39D669CC@bnl.gov>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

OK So I missed the UTC date error. As an experienced Fox and Fox Hunter and a reader of hundreds of qrp-l posts on UTC schedules and errors, I missed this one (of course).

Please add 1 to the dates shown on Mikes post for the QRP Bone Dig expedition. The UTC time are correct but obviously the dates would have changed once we move into 0000 utc time frame :-)

Sorry for the confusion.

You all can reply, encourage, query and bash Mike diectly at aa2qo@aol.com

72

Nick - kf2ph

QRP-L # 13      ARS # 127      LIQRP # 2

KL - Sir Nick at Knight    .    .

-----  
Date: Fri, 8 May 1998 08:33:41 -0800  
From: Russ Carpenter <russ@natworld.com>  
To: "QRP-L List" <qrp-l@lehigh.edu>, "Pete Hoover" <w6zh@ix.netcom.com>  
Subject: [10499] Contest Manager Leaves Town Hastily  
Message-ID: <199805081525.IAA01419@guppy.pond.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

Russ Carpenter, AA7QU, alleged contest manager and webmaster for Adventure Radio Society, will in in Bhutan for the remainder of May. I will be delighted to respond to your email upon my return.

>From the Oops Department: yours truly failed to include the outstanding results of Pete Hoover, W6ZH, in the May Spartan Sprints results. Pete managed to snag 16 Qs, proving that solar storms are no match for skillful QRPers. Congratulations!

Russ Carpenter, AA7QU

-----  
Date: Fri, 8 May 1998 10:35:53 -0500  
From: kreinbd@ccgate.dl.nec.com (David Kreinberg)  
To: qrp-l@lehigh.edu  
Subject: [10500] RTTY & FT840  
Message-ID: <0007B14D.4159@ccgate.dl.nec.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit  
Content-Description: cc:Mail note part

Happy Solar Stormy Week, folks.

Has anyone had any luck doing RTTY with the Yaesu FT-840?

I would like to pick up a TNC, or soundblaster software to do this. I'll be using a COMPAQ 486/66MHz/Win3.10 PC for this.

I'm really interested in getting into RTTY

soon. Any help/pointers would be of value.

TIA.

73 de Dave NR3E  
QRP-L #25  
nr Dallas, TX

-----  
Date: Fri, 8 May 1998 12:04:12 EDT  
From: KV1V <KV1V@aol.com>  
To: qrp-l@lehigh.edu  
Subject: [10501] Re: 2nd order intermod  
Message-ID: <9a49f4a7.35532cfe@aol.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

Laura:

I think better pre-mixer filtering and extra shielding might be a better solution than any mixer tinkering. The out-of-band signals that cause the 2nd-order mixing products should be kept out-of-band. My RS DX-390 has an external antenna jack that cuts out the AM-band loopstick when a plug is in it. If the '380 doesn't have that, maybe you need to add a bypass switch and use a sharp 300 kHz preselector before the mixer.

Bob KV1V  
-----

In a message dated 5/6/98 9:48:21 PM, marsgal42@hotmail.com writes:

<< I'm getting an object lesson in intermodulation - it's  
\*not\* just numbers in a textbook. One of my current projects  
is seeing if I can worry some data out of the local  
differential GPS beacons (three are within range), and  
have already found that I will need a mixer with very  
good IP2 numbers. The problem: two local AM broadcast  
stations, one on 900 kHz, the other on 1200 kHz. The  
result: a 2nd order intermod product on 300 kHz, obliterating  
the Whidbey Island beacon on 302 kHz.

Curiously, the receiver I'm using to see what I can hear  
(Sangean ATS-808/Realistic DX-380) shows good 3rd order  
intermod performance - nothing untoward on 600 or 1500 kHz.  
Just lousy 2nd order.

Methinks the 74HC4066 is worth trying as a mixer...

>>

-----  
Date: Fri, 08 May 1998 10:18:29 -0600  
From: Niel Skousen <nskousen@scientechnology.com>  
To: qrp-1@Lehigh.EDU  
Subject: [10502] Re: Desoldering, Elmer101  
Message-ID: <199805081618.KAA17523@eaglerock.if.scientechnology.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

All the solder wick usage hints have been right on in my experience. A note of caution...

be very careful in wiggling the wick (it does help..) or the iron tip. the circuit board pad is very fragile when hot. it is easy to ruin a pad by using too much tip pressure. IF the pressure is applied through the wick, the pad may lift off the board, IF the pressure is the tip, especially very nice small conical tips, you may see small dents in the pad and the edges of the pad begin to lift off the board. It (the pad) will probably come off the board the next time it is soldered or repair is attempted.

The pad may also loose all or part of the connection via the plate thru material. If the pad is on the bottom of the board and the trace is on the top, this often leads to a connection that looks good on the bottom of the board but is intermittent or hi-impedance... a real bear to find. One symptom to look for is a pad which will appear to solder on the bottom, but will not show adequate solder flow on the top of the board and onto the component lead....

Remember, in the case of soldering contact pressure does not significantly enhance heat flow. Its the small amount of fluid solder, and on the tip of a clean iron tip, and the fluid contact that conducts the heat quickly to the joint.

GL all  
Niel

>

>It also helps to wiggle the wick side to side (rapidly) while applying the  
>wick to the area being desoldered (with heat being applied).

>

----- . . . . . -----

Niel Skousen: Sr.Eng, SCIENTECH.SPG/CFG/NUSI  
208.525.3742, 524.9229 FAX 529.4721 Idaho Falls ID  
nskousen@scientech.com WA7SSA QRP-L.119

Z-----DN33wm--- . . . -

-----  
Date: Fri, 8 May 1998 10:23:25 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: Low Power Group <qrp-l@Lehigh.EDU>  
Subject: [10503] Ft. Tuthill?  
Message-ID: <Pine.SOL.3.91.980508100924.9701A-1000000@GPFN1.GPFN.SK.CA>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Would someone who has been to the Ft. Tuthill gathering please send me a description of where/when it is, sounds like it's held at a campground, weekend event?, average attendance, what happens there?,etc?...Bonnie & I have attended the Glacier/Waterton Hamfest for 11 years now in Montana, the middle of July weekend...it's held at the 3 Forks campground on highway #2 just slightly west of the Continental Divide....great place, wonderful views of the mountains as you're right in the middle of them, events running all weekend, prizes, competitions, tailgate flea market, the campground closes that weekend just for the hamfest, attendance averages 550 hams, this will be the 63 or 64th year, food, food & more food, it's put on by a committee made up of US & Canadian hams, ham radio dealers, good ladies program, belly dancers, \$10.00 US, pre-register or just show up, wx is usually warm & sunny, etc... looking forward to reading all about Tuthill as the little I've seen so far looks good....tnx & 72 - Bruce(VE5RC)

e-mail: rattray@gpfn.sk.ca

-----  
Date: Fri, 8 May 1998 12:07:25 -0400 (EDT)  
From: Richard Brittingham <rbritt@visi.net>  
To: Bensondj <Bensondj@aol.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [10504] Re: Unsoldering- one more time  
Message-ID: <Pine.GS0.3.96.980508120635.25228D-1000000@ankara.visi.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

As far as dental instruments go, most dentists will give em away. They get



dull for their uses.

73  
W4MCD

-----  
Amateur Radio Operator as WD4AEF for 22 years  
Now Vanity Call is W4MCD

-----  
Date: Fri, 08 May 1998 10:30:57 -0600  
From: Niel Skousen <nskousen@scientechnology.com>  
To: qrp-1@Lehigh.EDU  
Subject: [10505] Re: Elmer 101: U5 osc circuit  
Message-ID: <199805081631.KAA18115@eaglerock.if.scientechnology.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Glen, as usual has covered all the bases nicely.

One small detail on 602 type mixers... The biasing internal to the chip is sufficient for most applications. Occasionally you may find a resistor from the output (emitter) pin to ground.

This is done to increase the bias current by lowering the effective emitter resistance by paralleling the internal resistance with the external resistor. ( $R_{\text{effective}} = R_{\text{internal}} || R_{\text{external}}$ ) A second effect is to extend the oscillator range or increase oscillator output, so you may also see this technique used when someone is using the mixer chip close to the specified freq. limits or in a tx mixer application.

By the way, as a 'slacker' on the Elmer team, A public thanks to Glen, Mike, Paul, and Chuck for bearing a lions share of the Elmer work todate. Others have helped and do much, please don't be offended that I'm not including all names ;-)

tnx es 72  
Niel

-----  
Niel Skousen: Sr.Eng, SCIENTECH.SPG/CFG/NUSI  
208.525.3742, 524.9229 FAX 529.4721 Idaho Falls ID

nskousen@scientechn.com           WA7SSA   QRP-L.119  
Z-----DN33wm--- . . . -

-----  
Date: Fri, 8 May 1998 10:55:05 -0600  
From: "Marshall Emm" <mgemm@mtechnologies.com>  
To: qrp-l@lehigh.edu, cqcm@mtechnologies.com  
Subject: [10506] ARRL & QRP  
Message-ID: <199805081657.KAA31030@edison.chisp.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Chuck said, re Summer Fox Hunt:  
>>    the QRP ARCI power levels and not the ARRL contest limit of  
      5W PEP SSB.  
<<

Isn't it about time we took a crack at getting ARRL into line with  
the rest of the world? I'll address it to our Division Director, but  
wouldn't hurt for others to take similar steps-- unless you know of a  
better way to go about it.

73  
Marshall Emm  
N1FN/VK5FN  
n1fn@mtechnologies.com  
Milestone Technologies  
Software, kits, tools...  
<http://www.mtechnologies.com>  
(303)752-3382  
--

-----  
Date: Fri, 08 May 1998 17:12:19 +0000  
From: Ed Loranger <we6w@qsl.net>  
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [10507] Antenna Simulator Ascii schematic try.  
Message-ID: <35533CF3.6EF6@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Here's the part that I have. Apparently this is an accessory for a military Signal Generator kit. One list memeber may have official documentation on it.

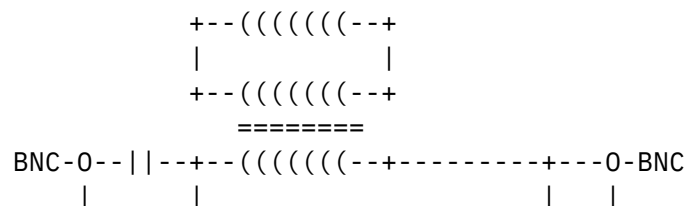
"Antenna Simulator  
SM-35/URM-25  
Part of AN/URM-25D"

I opened the box whice is very small. 1"x1"x2" and has BNC connectors at each end which actually are screwed into the box which has tapped threads for the BNC. So no screws used to mount the BNC connector.

The only part I'm not sure of is a 4-terminal device that looks like a 2-watt resistor with two axial leads at each end. When oriented with one lead high on each side and the part horizontal, the top leads have a wire soldered which is wound around the body of the part and ends at the other top lead. There is no other connection to these top leads, just the coil. My best guess on the part is that it is a two hole ferrite balun with one side floating and terminated in the coil.

I'd like to add that I'm not very knowledgeable on these ant. simulators, but my gut feeling is that there may be different types. I.E. Simulators for Dipoles, Verticals, resonant/non-resonant etc. I guess the answer we want is to the question: "What happens if I load my rig into my dipole at different frequencies." The ant. simulator should be designed to help test this without actually having to carry the dipole around. And also provide repeatable measurement results.

Anyway, here's my best guess on parts and values.



/// +---\\ \\ \\ \\-----||-----+ ///

CAPS=200pF

Resistor=400 Ohms (Measured)

TOP Coil is 35Turns #30 AWG on body of 2-Watt sized molded 4-terminal device I think is a ferrite balun. It has colored bands but they are covered by the outer coil.

That's it. Unless I cut the coil ends and measure the device. (Not doing that.)

I hope someone can use this info or clarify what the values are. Perhaps give us another antenna simulator design.

Best 72 to all and Happy Friday!  
-Ed Loranger

--

72, Ed, WE6W/qrp CW ONLY; Proud Member: QRP-L/ARCI/Norcal/ARS/AR  
<http://www.qsl.net/we6w> (Enjoying Ham Radio every day.)

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Date: Fri, 8 May 1998 13:13:13 -0400  
From: "Mike Czuhajewski" <mzczuhajewski@evi-inc.com>  
To: "QRP forum" <qrp-l@lehigh.edu>  
Cc: "Mike Czuhajewski" <wa8mcq@abs.net>  
Subject: [10508] History of HW-8 book  
Message-ID: <199805081716.NAA31481@xanadu.evi-inc.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Someone asked about this recently and someone else responded with a source, and said that the author is Mike Bryce, WB8VGE. That's not quite the whole story. It was originally produced by Fred Bonavita, W5QJM, under the auspices of the QRP ARCI, to which he later donated all rights. In the beginning it was known as the Hot Water Handbook, which did produce a certain amount of confusion in some circles since Heath had quite a few different HW-### rigs, all referred to as Hot Water-whatevers, and some people heard the title and thought it might contain information on all of those. Of course, it only had info on the HW-7 and HW-8, and later included

the HW-9 as well.

Around 1990, the stock started running low and was probably just about gone. I was at the QRP ARCI Board/Officers meeting at Dayton in that year, sitting quietly in the background as a new, easily intimidated, very junior member of the BoD. I kept quiet through the whole meeting, being junior and also suffering from the effects of lack of oxygen at high altitude; after all, this WAS back in the days when we used the old Belton Inn (or whatever it's name was in any given year!) in downtown Dayton and we were waaaaay up on the 11th floor!

The subject of the Hot Water Handbook came up, and it was discussed at great length. It was obvious that something had to be done since all copies were gone, or almost so, and it had to be reprinted. However, no one seemed willing to appropriate the big chunk of money needed to reprint a "ton" of them, and the discussion dragged on and on. Finally, an exasperated Mike Bryce stood up and declared that since it was obvious the club was not going to do anything, that he'd reprint the thing himself with his own money, and put his own name on the cover. (Actually, I think his name was already on it at that point; I believe he had updated and added to the first version, and that W5QJM was long out of the picture.) After some additional discussion that I will not describe here, it was agreed to by the President of the time that he would go ahead and do the next edition under his own name and with his own money.

In turn, Mike agreed that he would give any proceeds to the club. Of course, the vagaries of publishing in a very specialized niche market are such that there never really were any "proceeds" :-). He had to take a big chunk of his own money out of the bank, money that would no longer be drawing interest for years, and put it all into a huge pile of books that would take years and years to sell off. And it didn't help any that the person who did the graphics for him on the next update on his computer charged a hefty fee--this was before home computers and desktop publishing and inexpensive graphics packages had really taken off. Despite what some people probably believe, I don't think there were any obscene profits, and probably none at all :-). And if you don't believe that, you can talk to others who've done QRP publishing, like Ade Weiss and Rich Arland--they've been there and done that, too. I, for one, choose to NOT get involved in any headaches like that!

Mike once again upgraded the book, adding more new material as well as updating the look of it all. He also changed the name to the HW-8 Handbook, which was an improvement over Hot Water Handbook since it eliminated some possible confusion. (Although the title does not indicate it, it does contain some things for the HW-7 and HW-9, as well as some that are applicable to all.) Since it's been many years since he last updated it, there have of course been other articles published in various places on the rigs, so it does not contain absolutely everything that is out there. (One

later development is my own article on the bad ferrite cores in the output networks on 80 and 40 meters, which was published in the QRP Quarterly and appears in the "articles" archives of the qrp-l subdirectory at lehigh.edu.

There were also some HW-9 items by various people such as Scott McClellan and Gary Surrency that QRPp and the QRP Quarterly reprinted at various times.)

It was said that Kanga US has copies available. I don't know if Mike stocks any himself anymore, or if he has plans to reprint and/or update it in the future. (It IS a large and expensive project!) If anyone wants to talk to Mike Bryce about it, he's getting rid of his old Compuserv account and his new one is prosolar@sssnnet.com.

K3TKS was also at that meeting in 1990 and can verify most of what I've said. And if anyone else wants to comment on the subject and perhaps challenge some of my recollections they are quite willing to do so, but remember that qrp-l is being moderated for a while, so be careful what you say :-)

73 and Queue Our Pea DE WA8MCQ

-----  
Date: Fri, 8 May 1998 09:10:45 -0400  
From: Harry Bump <bump@redrose.net>  
To: "'QRP-L list'" <qrp-l@lehigh.edu>  
Subject: [10509] Denver CO 'lil help'  
Message-ID: <01BD7A86.C3600C60@ep5-38.desupernet.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: quoted-printable

Guys,

Many thanks for your info on the Colorado QRP Club. I've forwarded your = comments; hopefully you'll be hearing from another Pennsylvania = 'transplant' soon!

73, Harry, KM3D

-----  
Date: Fri, 8 May 1998 11:44:06 -0600 (MDT)  
From: Paul Harden <pharden@aoc.nrao.edu>  
To: Bruce Rattray <rattray@gpfn.sk.ca>

Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [10510] Re: Ft. Tuthill?  
Message-ID: <Pine.SOL.3.91.980508111224.10613A-1000000@zia>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Bruce and others,

The Ft. Tuthill Hamfest is in Flagstaff, Arizona. The hamfest itself is held at the Coconino (?) County Fairgrounds, located on old Ft. Tuthill, and hence the name. The fairgrounds are about 2-3 miles south of Flagstaff.

Flagstaff is a very pretty small city (population 50,000?) on the eastern base of the San Francisco Mountains amongst millions of tall pines. About an hour and a half drive to the northwest is the entrance to the Grand Canyon. Flagstaff itself is at the junction of two interstates, and thus pretty hard to miss.

The fairgrounds are fairly extensive with large and small exhibit buildings, rodeo grounds, plenty of parking, etc. The main exhibit building is used for the vendor displays, with many of the major manufacturers being there. Outside to the west is the tail gate hamfest and more vendor tables. A fairly large hamfest ... I think I heard over 5,000 in attendance over the weekend affair. It's definitely pretty crowded at most times! And probably 100 outside tables and tailgaters. Plenty to look at, and prices are FAR cheaper than Dayton, though a bit more than say California fests.

The QRP activities are held in one of the smaller exhibit buildings and very nice facilities. To the west of the fairgrounds (I mean a short walking distance, even when carrying that boat anchor you just bought) are the camping areas. The tall pine trees start right here, and the camping spots are nestled between all the trees. Very nice ... and smells good too! The Arizona fellas have one of the camping areas reserved specifically for the QRPers, which was really great, because we were all together. The camping areas have their own fire grill, and are suitable for backing in an RV, camper, trailer, or pitching a tent. Last year I think it was about 50/50 between guys pitching tents (like me) or campers/trailers. It is an IDEAL situation for bringing families along for a civilized camping trip, beautiful country and good security. Roger and Bob Hightower both brought their RV's/trailers which kinda became the unofficial QRP headquarters, a place to check in for messages, etc. Next to them was kind of a community camping area, that is with some tables, BBQ grill, the famous camp fire, where we all enjoyed a pot-luck dinner saturday night and decided the destiny of QRP and solved all world problems into the night :-). This is a short distance from all the camping areas ... which is very important at midnight after a couple of beers trying to find your tent in the PITCH DARK of the forest!

All-in-all, a very enjoyable experience. Very informal, just a bunch of great QRPers getting together and enjoying eachothers friendships. No agenda, no club politics, just more of a chuck wagon dinner/cattle drive/ John Wayne movie thing than any hamfest most of you have been to. The Az ScQRPions and the other area QRPers did a great job last year organizing the activities and providing a nice environment for us, and I'm sure this year will be no different.

I give it \*\*\*\*\*

And since Flagstaff is the "gateway to the grand canyon," there are something like 6,812 motels in Flagstaff for those of you not quite up to the camping thing. And of course things to do in the area if you wish to arrive early or stay late with the family.

That's the description from an attendees point of view. I'm sure the schedule of activities, list of speakers, etc. will be updated and posted before long. And frankly, not even sure myself what weekend it is, except I'll be there whenever it is.

72, Paul NA5N

-----  
Date: Fri, 8 May 1998 10:54:39 -0700 (MST)  
From: Joe Gervais <vole@primenet.com>  
To: qrp-l@lehigh.edu  
Cc: ratttray@gpfn.sk.ca  
Subject: [10511] Re: Ft. Tuthill?  
Message-ID: <199805081754.KAA14655@usr05.primenet.com>

Howdy Bruce and Folks,

Bruce (VE5RC) wrote:

>

> Would someone who has been to the Ft. Tuthill gathering please send me a  
> description of where/when it is, sounds like it's held at a campground,  
> weekend event?, average attendance, what happens there?,etc.?

Check out ScQRPion Bob's (KI7MN) webpage at  
<[www.dancris.com/~ki7mn](http://www.dancris.com/~ki7mn)> - he's got all the  
info there, I believe. Tuthill is a full-blown  
hamfest near Flagstaff, AZ (elev. 7000'), so  
it's nice and cool. :-) Dates are July 24-26.  
It's not huge, which is good. Let's us QRPers



take over, have classes/talks all Saturday,  
and reserve the adjacent campground all to  
ourselves. Nobody to kick us out, not even  
Olga. ;-)

> I have attended the Glacier/Waterton Hamfest [ ... ] ham radio  
> dealers, good ladies program, belly dancers [ ... ]

No belly dancers at Tuthill last year, but  
I hear if you give W5VBO and KK6MC/5 enough  
beer.... \*8-)

Everyone's invited! Hurry up and come to AZ  
to scout out the remaining hilltop QTHs  
before Chuck buys 'em all! :)

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

Nobody has so many friends that he can afford to lose one. -- Edward Abbey

-----  
Date: Fri, 8 May 1998 12:12:37 -0600 (MDT)  
From: af852@rgfn.epcc.edu (William R Colbert)  
To: psyodell@mail.provide.net, qrp-1@Lehigh.EDU  
Subject: [10512] Re: receivers  
Message-ID: <199805081812.MAA22442@rgfn.epcc.edu>

Jerry, you did not say if you wanted a general coverage type receiver  
or hamband only - lots and lots of choices still available.  
The suggestions of the Drake 2b with 2BQ is an excellent choice  
for hamband and some manipulation of controls for some SW coverage.  
As a former government cw radio operator, I heartily recommend  
AGAINST the NC400 receiver. The ones we had tended to drift,  
were not good for search and I almost always used the SP600  
(which was the main receiver on the position) with the NC400  
as a cw monitor only. If you want a general coverage receiver  
the SP600 is a good one, excellent in fact altho the calibration  
is not real close but the audio is outstanding and the filters  
are good. It is also heavy. For the best all around with  
the bandspread function is the Hammarlund HQ180 series receiver.  
They work very well, are sensitive, selective and not as heavy  
as some of the other receivers. Good luck on your choice.

73 Ray

--

Ray Colbert, W5XE  
00TC 3618, SOWP 1064M  
El Paso, Tx (FAR WEST TEXAS!)  
also: w5xe@juno.com

-----  
Date: Fri, 8 May 1998 13:28:49 -0500  
From: Tellefsen Bob-CNSE97 <cnse97@lmpsil02.comm.mot.com>  
To: rjrberri@xnet.com  
Cc: QRP-L list <QRP-L@Lehigh.EDU>  
Subject: [10513] Potentiometer  
Message-ID: <E726B6D1F2C7D1119AB900805FA74B3C1E86CD@s-il02-n.comm.mot.com>  
MIME-Version: 1.0  
Content-Type: text/plain

Rich:

Since you already know the pot is a 100K ohm unit, rotate the shaft to approximately the middle of its range. Measure the resistance between the three terminals. When you find the post showing about the same resistance to either of the other two, that is the wiper. Now you just decide which of the two remaining posts will be hot and ground. That determines whether you tune up in frequency as the dial numbers increase or as they decrease.

73, Bob N6WG

-----  
Date: Fri, 08 May 1998 13:42:48 -0500  
From: "George T. Baker" <w5yr@swbell.net>  
To: we6w@qsl.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [10514] Re: Antenna Simulator Ascii schematic try.  
Message-ID: <35535228.C325F489@swbell.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I seem to remember that many of the military "antenna simulators" were designed to be used in bench-testing and aligning specific receivers and transmitters. They present at the connection terminals the impedance at the operating frequency that the unit-under-test requires for proper

operation. Some of these can be quite specific for one piece of gear only while others are more general purpose. In general they were not necessarily associated with such general antenna types as dipoles, etc. Rather they were usually designed to portray the impedance properties of specific communications and/or navigation antennas.

The point is that it might not be possible to find very many general ham radio/band applications for a specific simulator if it is too specialized in its design and intended application.

Ed, why don't you run your Antennascope by it at various frequencies and see what you see?

--

72/73, George  
Amateur Radio W5YR  
QRP-L #1373 QRP ARCI #9583 FISTS #4930  
AutoPOWER Systems, Fairview, TX (30 Mi. N. of Dallas)

E

-----  
Date: Fri, 08 May 1998 18:44:31 +0000  
From: Ed Loranger <we6w@qsl.net>  
To: QRP-L@lehigh.edu  
Cc: "Bill Todd NWQ-L@scn.org" <bill@willapabay.org>  
Subject: [10515] Re: New NWQRP Contest  
Message-ID: <3553528F.4E2E@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

This sounds Great Bill!

Names? (No particular order of preference)

OPFD --One Person Field Day.  
OPERA -- One Person Erects Radiating Antenna

SOOT -- Single Op Over there  
OHSP -- One Hour Sprint  
QDAF -- Quick & Dirty Antenna Farm

OHTA -- One hour Transmitting Antenna  
NWTT -- North West Time Trial <===== My Favorite.

BYOA -- Build Your Own Antenna  
NALP -- New Antenna Low Power

FBAD -- Field Built Antenna Day  
FEAT -- Field Erected Antenna Test

FSS -- Field Stringer Special <== My #2 choice.

All for now.  
-Ed

--  
72, Ed, WE6W/qrp CW ONLY; Proud Member: QRP-L/ARCI/Norcal/ARS/AR  
<http://www.qsl.net/we6w> (Enjoying Ham Radio every day.)

-----  
Date: Fri, 08 May 1998 12:39:59 -0600  
From: tom whalen <whalen@swcp.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [10516] RR mobile  
Message-ID: <3553517F.6883@swcp.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello Fellow QRPers!

Going to give railroad mobile another go tonight! Details below.

Locat: New Mexico  
Time: 0130-0230z  
Freq. 14.060 +/- qrm  
Call: WB5QYT/RRM  
Rig: Emtech NW20  
Ant: 1/4 wave sloper  
Gnd: side of locomotive(150tons)

Hope to work some QRP-L ers!!

72, Tom WB5QYT/RRM

-----

Date: Fri, 08 May 1998 18:46:02 +0000  
From: Ed Loranger <we6w@qsl.net>  
To: w5yr@swbell.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [10517] Re: Antenna Simulator Ascii schematic try.  
Message-ID: <355352EA.776C@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

George T. Baker wrote:

<snip>

>

> Ed, why don't you run your Antennascope by it at various frequencies and

> see what you see?

Great Idea. Will report on Monday.

-Ed

--

72, Ed, WE6W/qrp CW ONLY; Proud Member: QRP-L/ARCI/Norcal/ARS/AR  
<http://www.qsl.net/we6w> (Enjoying Ham Radio every day.)

-----  
Date: Fri, 8 May 1998 11:48:12 -0700  
From: Kent Torell <torell@sicom.com>  
To: qrp-l@lehigh.edu  
Subject: [10518] Re: Ft. Tuthill?  
Message-ID: <v04003a04b1790352def3@[192.91.202.41]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Paul covered it pretty well, but he left off the key ingredient for my wife: HOT SHOWERS at the campsite!!! Playground (swings, slides, etc.) for the kids also. Another thing to note is that the Flight of the Bumblebees takes place that Sunday, so there is even a qrp contest event going on!

Kent Torell    torell@sicom.com    602-607-4852  
SICOM    7585 E. Redfield, #202    Scottsdale, AZ    85260  
AB70A    scQRPion, qrp-l 57, ARCI 9075    DM33xn    33.55 N 112.078 W

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Date: Fri, 8 May 1998 15:21:22 -0400  
From: Bill Howell <bhowell@mail.utexas.edu>  
To: qrp-l@lehigh.edu  
Cc: af389@lafn.org  
Subject: [10519] Re: BNC's for RG-174  
Message-ID: <199805081921.PAA56288@nss4.cc.Lehigh.EDU>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

David wrote:

I am trying to buy a small quantity of  
BNC connectors that will work with RG-174 coax.

Please suggest sources.

////////////////////////////////////////////////////////////////

David... take a look at  
[http://www.mars-cam.com/cable/general/me\\_p03.html](http://www.mars-cam.com/cable/general/me_p03.html)

The bottom of that page shows the Model C-600. These are handy  
if you don't like crimping.

Bill Howell  
University of Texas at Austin  
College of Fine Arts  
Electronic Maintenance  
N5AL0 QRP-L #415

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Date: Fri, 8 May 1998 15:20:23 -0400  
From: Mel Evans <MelEvansGM6JAG@compuserve.com>  
To: qrp-l <qrp-l@Lehigh.EDU>  
Subject: [10520] Unsoldering

Message-ID: <199805081520\_MC2-3C63-3A77@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Disposition: inline

One thing you might like to try is to add some more! Often the amount of solder left in the plated through hole is too little for you to be able to re-heat it with the iron and suck out, or solder braid!

Try ADDING more fresh solder so it runs as if you were making a joint, and then go for it with the sucker or the braid.

72 and 73 de Mel  
GM6JAG  
Edinburgh, Scotland UK  
Home of the last HW9

Area Chairman, British Caravanner's Club  
Web Pages <<http://users.aol.com/bccscot/page1.html>>

Alternate e-mail address: <[melgm6jag@aol.com](mailto:melgm6jag@aol.com)>

Authorised at 11kv, 33kv, and up to 275kv

-----  
Date: Fri, 08 May 1998 14:22:09 -0500  
From: Mike - W0TMW <[crucis@sky.net](mailto:crucis@sky.net)>  
To: [kreinbd@ccgate.dl.nec.com](mailto:kreinbd@ccgate.dl.nec.com)  
Cc: Low Power Amateur Radio Discussion <[qrp-1@lehigh.edu](mailto:qrp-1@lehigh.edu)>  
Subject: [10521] Re: RTTY & FT840  
Message-ID: <35535B61.84A8C2A7@sky.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I'd suggest you try RiTTY from K6STI. It's a DSP based DOS program for RTTY and Pactor. All you need to do is attach a lead from your speaker to the input jack of the Sound Blaster and then run a line from the output of the sound card to the audio-in of the mic jack. I use VOX to key the xmitr. If the rig is QSK, you can also run Pactor using AFSK through the mic jack.

You can check it out at this URL:

<http://www.megalink.net/~n1rct/rit2/rit2.html>

A demo version is available at this site.

Mike - W0TMW

RiTTY, TS-570S, DX-88 @ 5 watts

David Kreinberg wrote:

>  
>  
> Happy Solar Stormy Week, folks.  
>  
> Has anyone had any luck doing RTTY with the  
> Yaesu FT-840?  
>  
> I would like to pick up a TNC, or soundblaster  
> software to do this. I'll be using a COMPAQ  
> 486/66MHz/Win3.10 PC for this.  
>  
> I'm really interested in getting into RTTY  
> soon. Any help/pointers would be of value.  
>  
> TIA.  
>  
> 73 de Dave NR3E  
> QRP-L #25  
> nr Dallas, TX

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|                                                                     |                                                                       |
|---------------------------------------------------------------------|-----------------------------------------------------------------------|
| Mike Watson, W0TMW                                                  | QCWA Mbr# 28651, MidContinent Chapter #35                             |
| Raymore, Missouri, USA                                              | Grid: EM28st, ARS# 352, QRP-L# 1849                                   |
| <a href="http://www.sky.net/~crucis">http://www.sky.net/~crucis</a> | E-mail: <a href="mailto:crucis@sky.net">crucis@sky.net</a> ARCI# 9647 |

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Date: Fri, 8 May 1998 15:20:55 -0400  
From: Mel Evans <[MelEvansGM6JAG@compuserve.com](mailto:MelEvansGM6JAG@compuserve.com)>  
To: qrp-l <[qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)>  
Cc: gqrp <[gqrp-l@blacksheep.org](mailto:gqrp-l@blacksheep.org)>  
Subject: [10522] Amerenglish Components  
Message-ID: <199805081521\_MC2-3C63-3A92@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable  
Content-Type: text/plain; charset=ISO-8859-1



Content-Disposition: inline

Hi Gang,

I'll be happy to start off and host a page(s) for component codes and equivalents between both sides of the pond if you'll all let me know

a) what you want on it

b) those of you with the answers will post me direct with them

and I'll try and get it started  
this weekend!

Also, can anyone suggest a good name for it? Ameng.html ? EngAm.html?

72 and 73 de Mel  
GM6JAG  
Edinburgh, Scotland UK  
Home of the last HW9

Area Chairman, British Caravanner's Club  
Web Pages <<http://users.aol.com/bccscot/page1.html>>

Alternate e-mail address: <[melgm6jag@aol.com](mailto:melgm6jag@aol.com)>

Authorised at 11kv, 33kv, and up to 275kv

-----  
Date: Fri, 8 May 1998 12:29:48 -0700  
From: Conrad <[radman@best.com](mailto:radman@best.com)>  
To: Low Power Amateur Radio Discussion <[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>  
Subject: [10523] K2 Update !  
Message-ID: <01BD7A7C.FE47E5A0@radman.vip.best.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: quoted-printable

Fellow QRPers,

Thanks for the \*many\* emails and kind words re: the K2 review. It was =  
fun to write.  
Actually, I just got in the door after re-visiting Wayne's lab for a =  
"sneak peak" at the K2 with its final paint and silk-screening. Ummmmm, =  
you're gonna like it!

Weight update: the K2 full-up weight calculations of 7.5 pounds with = internal 3AH gel cell and ATU are high. Wayne and I talked on this = subject this morning and his forecast is much closer to 5.5 pounds - = full-up. After further discussion re: his vision of the ATU design, I = think \*his\* forecast is high :) I'd look for about 5 pounds = fully-loaded! He's using a lot of light-weight alloy in the K2 that's = bringing the weight down. At any rate the base K2 is \*very\* light.... = Probably around 2 pounds! (No official weights are available at this = time.)

The number one question I've been asked and the answer:

Q: Is the K2 "all-band/general coverage receive" or "ham-bands only?"

A: The K2 is a ham-bands only transceiver that will have some receive = over-lap outside some of the ham bands. WWV receive at 10.00 MHz and = possibly higher WWV freqs will be available. The receiver will cover = \*all\* ham bands 160-10 including WARC bands - 160 coverage requires the = 160 meter option board. (It's not a general coverage receiver.)

For all questions regarding the K2 you can email Eric Swartz at Elecraft = directly at radios@elecraft.com (Obviously, these guys are busy = preparing for Dayton but, Wayne said they'd do their best to get back to = your emails.)

72 - Conrad Weiss - NN6CW

-----  
Date: Fri, 8 May 1998 12:14:25 -0700  
From: Kent Torell <torell@sicom.com>  
To: whalen@swcp.com  
Cc: qrp-l@lehigh.edu  
Subject: [10524] Re: Emtech NW20 rcvr spurs  
Message-ID: <v04003a05b179061e8749@[192.91.202.41]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Tom reported SW interference in his NW20 receiver. I brought one in to work today that Floyd NQ7X had built, and duplicated Tom's problem.

The IF on this radio is centered at 9.826700 , and the LO tunes from 4.173 to 4.273, providing 14.0 to 14.1 coverage. Minimum signal I can discern with my ears is around -130 dBm.

I put a good synthesized signal generator on the input. IF feedthrough was

down about 70 dB (i.e., about -50 dbm to be detected). When the generator was set on 13.815, a -67 dBm signal could be heard when the radio was tuned to 14.010. Another spur was when the radio was tuned to 14.014, but -47 dBm was required.

For the 13.615 signal, a -37 dBm signal was heard when tuned to 14.014, and a -27 dBm signal when tuned to 14.049.

Except for the last one, all the spurs have the characteristic of low-order spurious...they tune at about the normal rate, and their strength varies normally with the input signal level. The last one behaves like a high order spur; it tunes very fast, and goes from very loud to non-existent with a 10 db drop in input signal level.

Shortwave signals can easily be at the -30 dbm level, particularly if you are feeding the radio with a beam. Clearly, the worst one is the 13.815 case. Like Tom pointed out, 'the math doesn't add up.' All my spurious prediction programs I use at work do not predict these signals! =:-o So, where are they coming from? They behave like the signal path is moving through the crystal filter; Floyd had installed an if gain pot, and the spur level moves smoothly up and down with the gain setting. The frequency response sounds like it is going through the crystal filter also, although the audio bandpass filtering could cover that a little bit.

I'm embarrassed to admit it, but I certainly cannot figure out this one ... It 'seems' the only cure is a better preselector filter...

Kent Torell    torell@sicom.com    602-607-4852  
SICOM    7585 E. Redfield, #202    Scottsdale, AZ    85260  
AB7OA    scQRPion, qrp-l 57, ARCI 9075    DM33xn    33.55 N 112.078 W

-----  
Date: Fri, 8 May 1998 12:53:19 -0700 (PDT)  
From: Monte Stark <ku7y@dri.edu>  
To: Marshall Emm <mgemm@mtechnologies.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [10525] Re: ARRL & QRP  
Message-ID: <Pine.SOL.3.96.980508123813.20806B-1000000@vortex>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 8 May 1998, Marshall Emm wrote:

>

> Chuck said, re Summer Fox Hunt:  
> >> the QRP ARCI power levels and not the ARRL contest limit of  
> 5W PEP SSB.  
> <<  
>  
> Isn't it about time we took a crack at getting ARRL into line with  
> the rest of the world?

Well Marshall,

I don't think it's quite that easy.....

The thing to look at is the basic assumption that we want to give SSB and CW some kind of equal footing. If we believe in that then how much power does it take running SSB to equal a 5W CW sig??

First let's be sure we all agree that we are all using PEP as the measurement base. Might as well because that's how the FCC says they do it!

Lots of discussion went on years ago about this issue. Many felt, and like ole' Ross Perot (sp?), whipped out the charts and formulas, to show that SSB needed more power to be the same as CW.

Others said no, that power was power and also had charts and formulas to "prove" their point!

The FCC (and the ARRL?) feel that this is so because the upper power limit is 1500W. Not 1500W for CW and 3000W for SSB, but just a simple 1500W (PEP) for everyone!

CQ and the QRP ARCI think it's 10W for the SSB station which must mean that they believe that SSB is half as "good" as CW.

So I would like to think that before setting the standard, that the first thing we need to do is define the standard!

And it's going to be hard to convince me that we should try to get the FCC to move the SSB limit up to 3000W or move the CW level to 750W.

So I guess the real question is.... if the establishment thinks the two modes are equal, why do we want to give SSB a 3 db advantage in a contest?

Before you give an argument, remember that the FCC has already heard and rejected it years ago! :-)

Or, do we want to skip all the debate, run however much power the sponsoring organization allows and have fun?

After all, the results of one contest do not compare to another one anyway.

Hehehehehe :-)

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

-----  
Date: Fri, 8 May 1998 12:55:18 -0700 (MST)  
From: Bob Hightower <ki7mn@dancris.com>  
To: rattray@gpfn.sk.ca  
Cc: qrp-l@Lehigh.EDU  
Subject: [10526] Re: Ft. Tuthill?  
Message-ID: <199805081955.MAA09772@user2.dancris.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 10:23 AM 5/8/98 -0600, you wrote:

>Would someone who has been to the Ft. Tuthill gathering please send me a  
>description of where/when it is, sounds like it's held at a campground,  
>weekend event?, average attendance, what happens there?,etc?...Bonnie &  
>I have attended the Glacier/Waterton Hamfest for 11 years now in Montana,  
>the middle of July weekend...it's held at the 3 Forks campground on  
>highway #2 just slightly west of the Continental Divide....great place,  
>wonderful views of the mountains as you're right in the middle of them,  
>events running all weekend, prizes, competitions, tailgate flea market,  
>the campground closes that weekend just for the hamfest, attendance  
>averages 550 hams, this will be the 63 or 64th year, food, food & more  
>food, it's put on by a committee made up of US & Canadian hams, ham radio  
>dealers,good ladies program, belly dancers, \$10.00 US, pre-register or  
>just show up, wx is usually warm & sunny, etc... looking forward to  
>reading all about Tuthill as the little I've seen so far looks  
>good....tnx & 72 - Bruce(VE5RC)

To add to what Paul has provided:

The Hamfest runs from July 24-26, 1998, so it kind of overlaps the start of the Bumblebee event.

Ft. Tuthill '98 - QRP Speaker Schedule - Saturday, July 25, 1998

| Time        | Speaker        | Subject                                                       |
|-------------|----------------|---------------------------------------------------------------|
| 9:00-10:00  | Doug Hendricks | KI6DSClubs/ Pubs/ Etc.                                        |
| 10:00-11:30 | Jim Duffey     | KK6MC/5 QRP Antennas                                          |
| 11:30-1:00  |                | LUNCH BREAK                                                   |
| 1:00-2:00   | Gary Hembree   | N7IR QRP Contesting                                           |
| 2:00-3:00   | Chuck Adams    | K5FO I think Chuck is going to talk about SPICE modeling.     |
| 3:00-4:00   | Dave Finley    | N1IRZ Morse Code: Breaking the Barrier                        |
| 4:00-5:30   | Paul Harden    | NA5N Paul has decided to cover Solar Cycles, etc in his talk. |

For those interested, there will be a cook-out on Saturday night in the Group Camping Area. You bring your own meat and utensils, we will provide the salad, beans, bread and other stuff.

73,

Bob KI7MN (ki7mn@dancris.com) Chandler, AZ  
NorCal #1221 ARCI #8918 Qrp-1 #271 CQC #274 AK QRP #30 ARRL  
<http://www.dancris.com/~ki7mn>

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Date: Fri, 8 May 1998 12:59:55 -0700 (MST)  
From: Bob Hightower <ki7mn@dancris.com>  
To: qrp-1@lehigh.edu  
Subject: [10527] Ft Tuthill Hamfest - QRP section  
Message-ID: <199805081959.MAA10260@user2.dancris.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I know that it's still a bit away, and many have not made plans, but, if you

are planning on coming to the Ft Tuthill hamfest, and would like to stay in the group camp area with the other qrp'ers, please send me a note to this effect.

This is NOT a reservation, just an attempt to get a count on how many will be there, and to see if there are going to be any problems with space. If you have a particularly large RV, or need some special arrangements, please let me know of this as well.

Hope to see many of you there.

73,

Bob KI7MN (ki7mn@dancris.com) Chandler, AZ

NorCal #1221 ARCI #8918 Qrp-1 #271 CQC #274 AK QRP #30 ARRL

<http://www.dancris.com/~ki7mn>

-----  
Date: Fri, 08 May 1998 16:10:22 -0400  
From: Ed <edn4pk@voyageronline.net>  
To: jdenison@morelr.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [10528] Re: bi-directional ant question  
Message-ID: <355366AE.BB197F0D@VoyagerOnline.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

A Bobtail curtain is the only way to go. Simple...Ezi to put together and it works very well. Corner feed should get a good swr....  
Ed N4PK

-----  
Date: Fri, 8 May 1998 14:11:45 -0600 (MDT)  
From: Paul Harden <pharden@aoc.nrao.edu>  
To: Bill Howell <bhowell@mail.utexas.edu>  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [10529] Re: BNC's for RG-174  
Message-ID: <Pine.SOL.3.91.980508140416.21338A-1000000@zia>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 8 May 1998, Bill Howell wrote:

> I am trying to buy a small quantity of  
> BNC connectors that will work with RG-174 coax.  
>  
> Please suggest sources.

Mouser Electronics (1-800-346-6873) has several, such as the 3-piece crimp BNC for RG-174, #523-31-315-RFX for \$1.88 each. Call them for a catalog ... free for the asking. Digi-Key probably has them also, but don't see their catalog laying around here at the moment.

72, Paul NA5N

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End of QRP-L Digest 1085

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